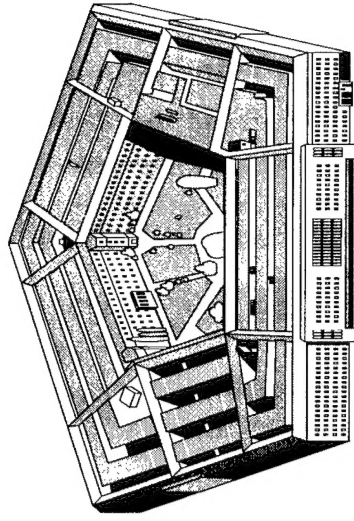


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# **RDTE PROGRAMS (R-1)**



*Department of Defense Budget*

*Fiscal Year 2005*

*February 2004*

*Office of the Under Secretary of Defense (Comptroller)*

**20050202 039**

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**Preface**

The RDT&E Programs (R-1) is derived from and consistent with the Comptroller Information System database.

The R-1 is provided annually to the DoD oversight committees of the Congress coincident with the transmittal of the President's Budget. This document is also provided to OASD (PA) for use by non-DoD activities, and is available to the public on the Internet at <http://www.dtic.mil/comptroller>.

**Office of the Under Secretary of Defense (Comptroller)**

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## DEPARTMENT OF DEFENSE

## FY 2005 RDT&amp;E PROGRAM

## SUMMARY

FEB 2004

(\$ IN THOUSANDS)

APPROPRIATION

|   | <u>FY 2003</u>    | <u>FY 2004</u>    | <u>FY 2005</u>    |
|---|-------------------|-------------------|-------------------|
| Research, Development, Test & Eval, Army                  | 7,594,576         | 10,201,354        | 10,435,557        |
| Research, Development, Test & Eval, Navy                  | 13,699,864        | 14,969,495        | 16,346,391        |
| Research, Development, Test & Eval, AF                    | 18,934,575        | 20,293,595        | 21,114,667        |
| Research, Development, Test & Eval, DW                    | 17,838,715        | 18,926,698        | 20,739,837        |
| Operational Test & Eval, Defense                          | 239,579           | 302,080           | 305,135           |
| <b>Total Research, Development, Test &amp; Evaluation</b> | <b>58,307,309</b> | <b>64,693,222</b> | <b>68,941,587</b> |



## UNCLASSIFIED

## DEPARTMENT OF DEFENSE

## FY 2005 RDT&amp;E PROGRAM

SUMMARY  
(\$ IN THOUSANDS)

FEB 2004

Summary Recap of Budget Activities

|   | <u>FY 2003</u>    | <u>FY 2004</u>    | <u>FY 2005</u>    |
|---|-------------------|-------------------|-------------------|
| Basic Research  | 1,368,607         | 1,403,900         | 1,330,078         |
| Applied Research  | 4,268,749         | 4,423,216         | 3,877,745         |
| Advanced Technology Development                           | 5,091,158         | 6,254,129         | 5,342,527         |
| Advanced Component Development & Prototypes               | 10,636,978        | 13,305,818        | 15,351,870        |
| System Development & Demonstration                        | 13,392,610        | 15,902,316        | 19,270,725        |
| RDT&E Management Support                                  | 4,046,437         | 3,277,828         | 3,260,574         |
| Operational Systems Development                           | 19,502,770        | 20,126,015        | 20,508,068        |
| <b>Total Research, Development, Test &amp; Evaluation</b> | <b>58,307,309</b> | <b>64,693,222</b> | <b>68,941,587</b> |

Summary Recap of FYDP Programs

|   |                   |                   |                   |
|---|-------------------|-------------------|-------------------|
| Strategic Forces  | 227,691           | 301,797           | 374,709           |
| General Purpose Forces                                    | 3,924,872         | 4,271,548         | 4,919,418         |
| Intelligence and Communications                           | 13,518,630        | 13,865,081        | 13,807,793        |
| Mobility Forces   | 642,828           | 770,491           | 835,980           |
| Guard and Reserve Forces                                  | 8,553             | 4,600             |                   |
| Research and Development                                  | 39,052,984        | 44,277,739        | 47,947,540        |
| Central Supply and Maintenance                            | 341,650           | 396,420           | 248,734           |
| Training Medical and Other                                | 299               | 3,230             | 3,372             |
| Administration and Associated Activities                  | 123,749           | 202,755           | 310,404           |
| Support of Other Nations                                  | 4,143             | 28,695            | 34,939            |
| Special Operations Forces                                 | 461,910           | 570,866           | 458,698           |
| <b>Total Research, Development, Test &amp; Evaluation</b> | <b>58,307,309</b> | <b>64,693,222</b> | <b>68,941,587</b> |

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## DEPARTMENT OF THE ARMY

## FY 2005 RDT&amp;E PROGRAM

SUMMARY  
(\$ IN THOUSANDS)

FEB 2004

Summary Recap of Budget Activities

|   | <u>FY 2003</u>   | <u>FY 2004</u>    | <u>FY 2005</u>    |
|---|------------------|-------------------|-------------------|
| Basic Research  | 242,924          | 381,593           | 317,506           |
| Applied Research  | 852,485          | 1,039,845         | 651,192           |
| Advanced Technology Development                           | 1,095,874        | 1,205,226         | 814,615           |
| Advanced Component Development & Prototypes               | 944,163          | 920,801           | 734,493           |
| System Development & Demonstration                        | 2,430,934        | 4,663,567         | 6,129,313         |
| RDT&E Management Support                                  | 954,015          | 893,813           | 859,298           |
| Operational Systems Development                           | 1,074,181        | 1,096,509         | 929,140           |
| <b>Total Research, Development, Test &amp; Eval, Army</b> | <b>7,594,576</b> | <b>10,201,354</b> | <b>10,435,557</b> |

Summary Recap of FYDP Programs

|   |                  |                   |                   |
|---|------------------|-------------------|-------------------|
| Strategic Forces  | 33,489           | 58,397            | 81,514            |
| General Purpose Forces                                    | 546,244          | 541,560           | 410,551           |
| Intelligence and Communications                           | 320,295          | 326,298           | 270,825           |
| Research and Development                                  | 6,614,798        | 9,188,748         | 9,603,839         |
| Central Supply and Maintenance                            | 79,066           | 85,853            | 68,233            |
| Administration and Associated Activities                  | 181              |                   |                   |
| Support of Other Nations                                  | 503              | 498               | 595               |
| <b>Total Research, Development, Test &amp; Eval, Army</b> | <b>7,594,576</b> | <b>10,201,354</b> | <b>10,435,557</b> |

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DEPARTMENT OF THE ARMY  
FY 2005 ROT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                |                | S<br>E |
|------------|------------------------------|--|-----|----------------------|----------------|----------------|--------|
|            |                              |  |     | FY 2003              | FY 2004        | FY 2005<br>C   |        |
| 1          | 0601101A                     | In-House Laboratory Independent Research           | 1   | 20,255               | 23,914         | 23,971         | U      |
| 2          | 0601102A                     | Defense Research Sciences                          | 1   | 138,432              | 156,146        | 131,206        | U      |
| 3          | 0601103A                     | University Research Initiatives                    | 1   |                      | 85,242         | 75,133         | U      |
| 4          | 0601104A                     | University and Industry Research Centers           | 1   | 84,237               | 99,786         | 77,658         | U      |
| 5          | 0601105A                     | Force Health Protection                            | 1   |                      | 16,505         | 9,538          | U      |
|            |                              | <b>Basic Research</b>                              |     | <b>242,924</b>       | <b>381,593</b> | <b>317,506</b> |        |
| 6          | 0602105A                     | Materials Technology                               | 2   | 35,041               | 39,972         | 15,385         | U      |
| 7          | 0602120A                     | Sensors and Electronic Survivability               | 2   | 21,700               | 25,230         | 25,629         | U      |
| 8          | 0602122A                     | TRACTOR HIP  | 2   | 6,322                | 5,649          | 6,627          | U      |
| 9          | 0602211A                     | Aviation Technology                                | 2   | 39,163               | 39,172         | 41,629         | U      |
| 10         | 0602270A                     | Electronic Warfare Technology                      | 2   | 17,002               | 16,471         | 18,034         | U      |
| 11         | 0602303A                     | Missile Technology                                 | 2   | 52,793               | 91,560         | 51,993         | U      |
| 12         | 0602307A                     | Advanced Weapons Technology                        | 2   | 19,785               | 14,706         | 16,641         | U      |
| 13         | 0602308A                     | Advanced Concepts and Simulation                   | 2   | 28,453               | 30,431         | 15,041         | U      |
| 14         | 0602601A                     | Combat Vehicle and Automotive Technology           | 2   | 81,562               | 125,147        | 69,638         | U      |
| 15         | 0602618A                     | Ballistics Technology                              | 2   | 61,372               | 57,197         | 51,301         | U      |
| 16         | 0602622A                     | Chemical, Smoke and Equipment Defeating Technology | 2   | 15,480               | 21,722         | 3,476          | U      |
| 17         | 0602623A                     | Joint Service Small Arms Program                   | 2   | 5,373                | 5,649          | 5,739          | U      |
| 18         | 0602624A                     | Weapons and Munitions Technology                   | 2   | 71,917               | 75,266         | 44,666         | U      |
| 19         | 0602705A                     | Electronics and Electronic Devices                 | 2   | 61,510               | 76,809         | 41,236         | U      |
| 20         | 0602709A                     | Night Vision Technology                            | 2   | 18,707               | 21,506         | 22,617         | U      |

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DEPARTMENT OF THE ARMY  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                  |                | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|------------------|----------------|-------------|
|            |                              |  |     | FY 2003              | FY 2004          | FY 2005        |             |
| 21         | 0602712A                     | Countermine Systems                                  | 2   | 18,408               | 26,016           | 20,547         | U           |
| 22         | 0602716A                     | Human Factors Engineering Technology                 | 2   | 20,247               | 23,913           | 16,899         | U           |
| 23         | 0602720A                     | Environmental Quality Technology                     | 2   | 26,461               | 30,824           | 17,026         | U           |
| 24         | 0602782A                     | Command, Control, Communications Technology          | 2   | 20,805               | 18,115           | 18,604         | U           |
| 25         | 0602783A                     | Computer and Software Technology                     | 2   | 3,931                | 4,010            | 3,982          | U           |
| 26         | 0602784A                     | Military Engineering Technology                      | 2   | 54,562               | 51,577           | 47,152         | U           |
| 27         | 0602785A                     | Manpower/Personnel/Training Technology               | 2   | 15,130               | 15,053           | 15,322         | U           |
| 28         | 0602786A                     | Warfighter Technology                                | 2   | 35,826               | 49,349           | 21,131         | U           |
| 29         | 0602787A                     | Medical Technology                                   | 2   | 120,935              | 174,501          | 60,877         | U           |
|            |                              | <b>Applied Research</b>                              |     | <b>852,485</b>       | <b>1,039,845</b> | <b>651,192</b> |             |
| 30         | 0603001A                     | Warfighter Advanced Technology                       | 3   | 55,618               | 66,855           | 68,034         | U           |
| 31         | 0603002A                     | Medical Advanced Technology                          | 3   | 168,093              | 217,737          | 38,404         | U           |
| 32         | 0603003A                     | Aviation Advanced Technology                         | 3   | 42,388               | 84,966           | 69,549         | U           |
| 33         | 0603004A                     | Weapons and Munitions Advanced Technology            | 3   | 61,206               | 53,737           | 67,622         | U           |
| 34         | 0603005A                     | Combat Vehicle and Automotive Advanced Technology    | 3   | 304,885              | 270,656          | 203,126        | U           |
| 35         | 0603006A                     | Command, Control, Communications Advanced Technology | 3   | 8,700                | 11,339           | 9,946          | U           |
| 36         | 0603007A                     | Manpower, Personnel and Training Advanced Technology | 3   | 7,606                | 8,921            | 7,288          | U           |
| 37         | 0603008A                     | Electronic Warfare Advanced Technology               | 3   | 28,662               | 59,170           | 41,760         | U           |
| 38         | 0603009A                     | TRACTOR HIKE   | 3   | 16,943               | 7,686            | 8,035          | U           |

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DEPARTMENT OF THE ARMY  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2004

| Line<br>No                             | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                |         | S<br>E<br>C |
|--|------------------------------|---|-----|----------------------|----------------|---------|-------------|
|  |                              |   |     | FY 2003              | FY 2004        | FY 2005 |             |
| 39                                     | 0603015A                     | Next Generation Training & Simulation Systems                             | 3   | 15,658               | 18,072         | U       |             |
| 40                                     | 0603020A                     | TRACTOR ROSE  | 3   | 4,159                | 4,736          | U       |             |
| 41                                     | 0603103A                     | Explosives Demilitarization Technology                                    | 3   | 24,842               | 9,706          | U       |             |
| 42                                     | 0603105A                     | Military HIV Research   | 3   | 14,059               | 6,641          | U       |             |
| 43                                     | 0603125A                     | Combating Terrorism, Technology Development                               | 3   | 8,610                | 3,383          | U       |             |
| 44                                     | 0603238A                     | Global Surveillance/Air Defense/Precision Strike Technology Demonstration | 3   | 29,774               | 10,721         | U       |             |
| 45                                     | 0603270A                     | Electronic Warfare Technology   | 3   | 18,566               | 9,382          | U       |             |
| 46                                     | 0603313A                     | Missile and Rocket Advanced Technology                                    | 3   | 100,616              | 92,800         | U       |             |
| 47                                     | 0603322A                     | TRACTOR CAGE  | 3   | 2,938                | 13,312         | U       |             |
| 48                                     | 0603606A                     | Landmine Warfare and Barrier Advanced Technology                          | 3   | 28,075               | 25,577         | U       |             |
| 49                                     | 0603607A                     | Joint Service Small Arms Program  | 3   | 16,396               | 5,968          | U       |             |
| 50                                     | 0603654A                     | Line-Of-Sight Technology Demonstration                                    | 3   | 29,931               |                | U       |             |
| 51                                     | 0603710A                     | Night Vision Advanced Technology  | 3   | 77,129               | 50,071         | U       |             |
| 52                                     | 0603728A                     | Environmental Quality Technology Demonstrations                           | 3   | 12,694               | 14,666         | U       |             |
| 53                                     | 0603734A                     | Military Engineering Advanced Technology                                  | 3   | 13,643               | 3,865          | U       |             |
| 54                                     | 0603772A                     | Advanced Tactical Computer Science and Sensor Technology                  | 3   | 26,928               | 31,951         | U       |             |
| <b>Advanced Technology Development</b> |                              |   |     | <b>1,095,874</b>     | <b>814,615</b> |         |             |
| 55                                     | 0603305A                     | Army Missile Defense Systems Integration(Non Space)                       | 4   | 36,790               | 53,509         | U       |             |

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DEPARTMENT OF THE ARMY  
FY 2005 ROTEE PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |              | S<br>E |
|------------|------------------------------|--|-----|----------------------|---------|--------------|--------|
|            |                              |  |     | FY 2003              | FY 2004 | FY 2005<br>C |        |
| 56         | 0603308A                     | Army Missile Defense Systems<br>Integration (Space)              | 4   | 56,974               | 35,532  | 4,871        | U      |
| 57         | 0603327A                     | Air and Missile Defense Systems<br>Engineering                   | 4   |                      | 121,489 | 91,713       | U      |
| 58         | 0603619A                     | Landmine Warfare and Barrier -<br>Adv Dev                        | 4   | 9,719                | 36,563  | 11,634       | U      |
| 59         | 0603627A                     | Smoke, Obscurant and Target<br>Defeating Sys-Adv Dev             | 4   | 2,324                | 10,147  | 6,249        | U      |
| 60         | 0603639A                     | Tank and Medium Caliber Ammunition                               | 4   | 26,367               | 26,055  | 39,697       | U      |
| 61         | 0603645A                     | Armored System Modernization -<br>Adv Dev                        | 4   | 127,951              |         |              | U      |
| 62         | 0603653A                     | Advanced Tank Armament System<br>(ATAS)                          | 4   | 150,234              | 60,692  | 51,892       | U      |
| 63         | 0603747A                     | Soldier Support and Survivability                                | 4   | 19,664               | 13,833  | 13,810       | U      |
| 64         | 0603766A                     | Tactical Electronic Surveillance<br>System - Adv Dev             | 4   | 16,112               | 16,878  | 15,441       | U      |
| 65         | 0603774A                     | Night Vision Systems Advanced<br>Development                     | 4   | 10,984               | 7,005   | 14,047       | U      |
| 66         | 0603779A                     | Environmental Quality Technology                                 | 4   | 30,980               | 40,509  | 9,356        | U      |
| 67         | 0603782A                     | Warfighter Information<br>Network-Tactical                       | 4   | 48,849               | 81,393  | 99,645       | U      |
| 68         | 0603790A                     | NATO Research and Development                                    | 4   | 4,561                | 2,747   | 4,801        | U      |
| 69         | 0603801A                     | Aviation - Adv Dev   | 4   | 10,660               | 14,307  | 9,233        | U      |
| 70         | 0603802A                     | Weapons and Munitions - Adv Dev                                  | 4   | 35,634               | 31,500  | 2,382        | U      |
| 71         | 0603804A                     | Logistics and Engineer Equipment<br>- Adv Dev                    | 4   | 11,997               | 12,863  | 10,485       | U      |
| 72         | 0603805A                     | Combat Service Support Control<br>System Evaluation and Analysis | 4   | 8,275                | 8,585   | 6,366        | U      |
| 73         | 0603807A                     | Medical Systems - Adv Dev  | 4   | 13,280               | 13,392  | 10,258       | U      |

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DEPARTMENT OF THE ARMY  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2004

| Line<br>No   | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|--|------------------------------|--|-----|----------------------|----------------|----------------|-------------|
|  |                              |  |     | FY 2003              | FY 2004        | FY 2005        |             |
| 74   | 0603850A                     | Integrated Broadcast Service<br>(JMIP/DISTP)           | 4   | 1,928                | 2,073          | 4,356          | U           |
| 75   | 0603854A                     | Artillery Systems                                      | 4   | 306,778              |                |                | U           |
| 76   | 0603856A                     | SCAMP Block II   | 4   | 14,102               | 27,716         | 10,221         | U           |
| 77   | 0603869A                     | Medium Extended Air Defense<br>System (MEADS) Concepts | 4   |                      | 249,444        | 264,527        | U           |
| <b>Advanced Component Development &amp; Prototypes</b> |                              |  |     | <b>944,163</b>       | <b>920,801</b> | <b>734,493</b> |             |
| 78   | 0604201A                     | Aircraft Avionics                                      | 5   | 35,971               | 47,155         | 68,857         | U           |
| 79   | 0604220A                     | Armed, Deployable OH-58D                               | 5   | 1,759                |                |                | U           |
| 80   | 0604223A                     | Comanche   | 5   | 865,613              | 1,068,029      | 1,229,664      | U           |
| 81   | 0604270A                     | Electronic Warfare Development                         | 5   | 38,291               | 32,870         | 16,879         | U           |
| 82   | 0604280A                     | Joint Tactical Radio                                   | 5   | 62,892               | 133,293        | 121,400        | U           |
| 83   | 0604321A                     | All Source Analysis System                             | 5   | 54,341               | 19,959         | 5,346          | U           |
| 84   | 0604328A                     | TRACTOR CAGE   | 5   | 9,304                | 16,046         | 14,149         | U           |
| 85   | 0604329A                     | Common Missile   | 5   | 28,104               | 93,705         | 152,381        | U           |
| 86   | 0604601A                     | Infantry Support Weapons                               | 5   |                      | 28,340         | 28,187         | U           |
| 87   | 0604604A                     | Medium Tactical Vehicles                               | 5   | 3,584                | 4,321          | 2,854          | U           |
| 88   | 0604609A                     | Smoke, Obscurant and Target<br>Defeating Sys-SDD       | 5   | 7,521                | 11,968         | 3,798          | U           |
| 89   | 0604611A                     | JAVELIN  | 5   | 467                  | 946            | 944            | U           |
| 90   | 0604622A                     | Family of Heavy Tactical Vehicles                      | 5   | 13,852               | 16,875         | 2,479          | U           |
| 91   | 0604633A                     | Air Traffic Control                                    | 5   | 2,161                | 2,489          | 2,088          | U           |
| 92   | 0604641A                     | Tactical Unmanned Ground Vehicle<br>(TUGV)             | 5   | 1,146                |                |                | U           |
| 93   | 0604642A                     | Light Tactical Wheeled Vehicles                        | 5   | 7,900                | 18,010         |                | U           |

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DEPARTMENT OF THE ARMY  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |           |           | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|-----------|-----------|-------------|
|            |                              |  |     | FY 2003              | FY 2004   | FY 2005 C |             |
| 94         | 0604645A                     | Armored Systems Modernization (ASM)-SDD                | 5   | 159,175              | 1,423,146 | 2,700,455 | U           |
| 95         | 0604647A                     | Non-Line of Sight Cannon                               | 5   |                      | 260,495   | 497,643   | U           |
| 96         | 0604649A                     | Engineer Mobility Equipment Development                | 5   | 7,651                |           |           | U           |
| 97         | 0604710A                     | Night Vision Systems - SDD                             | 5   | 31,687               | 38,816    | 24,693    | U           |
| 98         | 0604713A                     | Combat Feeding, Clothing, and Equipment                | 5   | 80,989               | 98,960    | 115,093   | U           |
| 99         | 0604715A                     | Non-System Training Devices - SDD                      | 5   | 55,865               | 70,870    | 51,694    | U           |
| 100        | 0604716A                     | Terrain Information - SDD                              | 5   | 8,092                | 6,905     | 3,199     | U           |
| 101        | 0604726A                     | Integrated Meteorological Support System               | 5   | 3,359                | 3,275     | 2,485     | U           |
| 102        | 0604738A                     | JSIMS Core Program                                     | 5   | 28,759               |           |           | U           |
| 103        | 0604741A                     | Air Defense Command, Control and Intelligence - SDD    | 5   | 26,983               | 28,993    | 27,376    | U           |
| 104        | 0604742A                     | Constructive Simulation Systems Development            | 5   | 43,673               | 16,818    | 42,869    | U           |
| 105        | 0604746A                     | Automatic Test Equipment Development                   | 5   | 12,647               | 11,316    | 4,713     | U           |
| 106        | 0604760A                     | Distributive Interactive Simulations (DIS) - SDD       | 5   | 18,087               | 25,789    | 26,985    | U           |
| 107        | 0604766A                     | Tactical Surveillance Systems - SDD                    | 5   | 57,229               | 26,022    | 21,821    | U           |
| 108        | 0604768A                     | Army Tactical Missile System (ATACMS)                  | 5   | 55,922               | 9,897     | 21        | U           |
| 109        | 0604770A                     | Joint Surveillance/Target Attack Radar System (JSTARS) | 5   | 4,509                | 4,656     |           | U           |
| 110        | 0604778A                     | Positioning Systems Development (SPACE)                | 5   |                      | 1,558     | 2,048     | U           |



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DEPARTMENT OF THE ARMY  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|------------------|------------------|-------------|
|            |                              |  |     | FY 2003              | FY 2004          | FY 2005          |             |
| 111        | 0604780A                     | Combined Arms Tactical Trainer<br>(CATT) Core                  | 5   | 8,162                | 3,956            | 23,849           | U           |
| 112        | 0604783A                     | Joint Network Management System                                | 5   | 7,673                | 9,339            | 10,726           | U           |
| 113        | 0604801A                     | Aviation - SDD   | 5   | 2,979                | 3,344            | 2,378            | U           |
| 114        | 0604802A                     | Weapons and Munitions - SDD                                    | 5   | 49,830               | 157,076          | 125,885          | U           |
| 115        | 0604804A                     | Logistics and Engineer Equipment<br>- SDD                      | 5   | 56,101               | 87,471           | 89,151           | U           |
| 116        | 0604805A                     | Command, Control, Communications<br>Systems - SDD              | 5   | 89,465               | 216,811          | 219,790          | U           |
| 117        | 0604807A                     | Medical Materiel/Medical<br>Biological Defense Equipment - SDD | 5   | 18,769               | 22,615           | 11,727           | U           |
| 118        | 0604808A                     | Landmine Warfare/Barrier - SDD                                 | 5   | 125,024              | 96,187           | 51,045           | U           |
| 119        | 0604814A                     | Artillery Munitions  | 5   | 102,141              | 122,631          | 133,297          | U           |
| 120        | 0604817A                     | Combat Identification  | 5   | 4,983                | 11,817           | 6,994            | U           |
| 121        | 0604818A                     | Army Tactical Command & Control<br>Hardware & Software         | 5   | 97,970               | 101,166          | 68,110           | U           |
| 122        | 0604819A                     | LOSAT  | 5   | 10,603               | 30,488           | 22,628           | U           |
| 123        | 0604820A                     | Radar Development  | 5   |                      |                  | 6,107            | U           |
| 124        | 0604823A                     | Firefinder   | 5   | 28,401               | 26,825           | 18,516           | U           |
| 125        | 0604854A                     | Artillery Systems  | 5   | 30,483               | 32,289           | 9,550            | U           |
| 126        | 0604865A                     | Patriot PAC-3 Theater Missile<br>Defense Acquisition           | 5   |                      | 156,827          | 64,178           | U           |
| 127        | 0605013A                     | Information Technology Development                             | 5   | 70,817               | 63,203           | 95,261           | U           |
|            |                              | <b>System Development &amp; Demonstration</b>                  |     | <b>2,430,934</b>     | <b>4,663,567</b> | <b>6,129,313</b> |             |
| 128        | 0604256A                     | Threat Simulator Development                                   | 6   | 17,593               | 19,601           | 22,101           | U           |
| 129        | 0604258A                     | Target Systems Development                                     | 6   | 10,049               | 13,444           | 11,017           | U           |
| 130        | 0604759A                     | Major T&E Investment   | 6   | 47,054               | 60,141           | 57,987           | U           |

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DEPARTMENT OF THE ARMY  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |           | S | E |
|------------|------------------------------|--|-----|----------------------|---------|-----------|---|---|
|            |                              |  |     | FY 2003              | FY 2004 | FY 2005 C |   |   |
| 131        | 0605103A                     | Rand Arroyo Center                                     | 6   | 21,163               | 22,072  | 20,012    | U |   |
| 132        | 0605301A                     | Army Kwajalein Atoll                                   | 6   | 125,327              | 138,884 | 143,921   | U |   |
| 133        | 0605326A                     | Concepts Experimentation Program                       | 6   | 23,330               | 30,704  | 22,727    | U |   |
| 134        | 0605502A                     | Small Business Innovative Research                     | 6   | 179,142              |         |           | U |   |
| 135        | 0605601A                     | Army Test Ranges and Facilities                        | 6   | 129,665              | 182,885 | 181,114   | U |   |
| 136        | 0605602A                     | Army Technical Test<br>Instrumentation and Targets     | 6   | 41,774               | 56,899  | 52,433    | U |   |
| 137        | 0605604A                     | Survivability/Lethality Analysis                       | 6   | 34,921               | 41,860  | 44,648    | U |   |
| 138        | 0605605A                     | DOD High Energy Laser Test<br>Facility                 | 6   | 16,672               | 18,299  | 15,725    | U |   |
| 139        | 0605606A                     | Aircraft Certification                                 | 6   | 3,555                | 2,999   | 2,985     | U |   |
| 140        | 0605702A                     | Meteorological Support to RDT&E<br>Activities          | 6   | 6,792                | 9,359   | 8,711     | U |   |
| 141        | 0605706A                     | Material Systems Analysis                              | 6   | 8,978                | 15,642  | 18,000    | U |   |
| 142        | 0605709A                     | Exploitation of Foreign Items                          | 6   | 3,430                | 3,465   | 4,740     | U |   |
| 143        | 0605712A                     | Support of Operational Testing                         | 6   | 83,911               | 66,995  | 71,239    | U |   |
| 144        | 0605716A                     | Army Evaluation Center                                 | 6   | 43,809               | 46,527  | 62,209    | U |   |
| 145        | 0605718A                     | Simulation & Modeling for Acq,<br>Rqts, & Tng (SMART)  | 6   |                      | 2,568   | 1,935     | U |   |
| 146        | 0605801A                     | Programwide Activities                                 | 6   | 59,836               | 62,966  | 59,368    | U |   |
| 147        | 0605803A                     | Technical Information Activities                       | 6   | 54,182               | 42,122  | 27,713    | U |   |
| 148        | 0605805A                     | Munitions Standardization,<br>Effectiveness and Safety | 6   | 30,002               | 39,783  | 14,611    | U |   |
| 149        | 0605857A                     | Environmental Quality Technology<br>Mgmt Support       | 6   | 1,794                | 4,780   | 4,527     | U |   |
| 150        | 0605898A                     | Management HQ - R&D                                    | 6   | 10,855               | 11,818  | 11,575    | U |   |

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DEPARTMENT OF THE ARMY  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2004

| Line No                             | Program Element Number | Item  | Act | Thousands of Dollars |         |         | S E C U |
|-------------------------------------|------------------------|---|-----|----------------------|---------|---------|---------|
|                                     |                        |   |     | FY 2003              | FY 2004 | FY 2005 |         |
| 151                                 | 0909999A               | Financing for Cancelled Account Adjustments         | 6   | 181                  |         |         |         |
| <b>RDT&amp;E Management Support</b> |                        |   |     |                      |         |         |         |
|                                     |                        |   |     | 954,015              | 893,813 | 859,298 |         |
| 152                                 | 0603778A               | MLRS Product Improvement Program                    | 7   | 94,584               | 83,903  | 97,422  | U       |
| 153                                 | 0102419A               | Aerostat Joint Project Office                       | 7   | 33,489               | 58,397  | 81,514  | U       |
| 154                                 | 0203610A               | Domestic Preparedness Against WMD                   | 7   | 2,437                | 3,956   |         | U       |
| 155                                 | 0203726A               | Adv Field Artillery Tactical Data System            | 7   | 44,959               | 28,599  | 17,994  | U       |
| 156                                 | 0203735A               | Combat Vehicle Improvement Programs                 | 7   | 81,285               | 31,336  | 15,952  | U       |
| 157                                 | 0203740A               | Maneuver Control System                             | 7   | 40,612               | 39,145  | 24,753  | U       |
| 158                                 | 0203744A               | Aircraft Modifications/Product Improvement Programs | 7   | 206,500              | 276,191 | 224,368 | U       |
| 159                                 | 0203752A               | Aircraft Engine Component Improvement Program       | 7   | 6,759                | 5,339   | 2,427   | U       |
| 160                                 | 0203758A               | Digitization  | 7   | 27,727               | 18,049  | 24,506  | U       |
| 161                                 | 0203759A               | Force XXI Battle Command, Brigade and Below (FBCB2) | 7   | 59,887               | 47,901  | 23,510  | U       |
| 162                                 | 0203801A               | Missile/Air Defense Product Improvement Program     | 7   | 39,262               | 46,055  | 31,690  | U       |
| 163                                 | 0203802A               | Other Missile Product Improvement Programs          | 7   | 12,229               | 1,061   | 4,863   | U       |
| 164                                 | 0203806A               | TRACTOR RUT   | 7   |                      | 8,754   | 3,321   | U       |
| 165                                 | 0203808A               | TRACTOR CARD  | 7   | 8,495                | 9,153   | 9,023   | U       |
| 166                                 | 0208010A               | Joint Tactical Communications Program (TRI-TAC)     | 7   | 13,281               | 16,362  | 18,177  | U       |
| 167                                 | 0208053A               | Joint Tactical Ground System                        | 7   | 2,811                | 9,659   | 9,967   | U       |
| 168                                 | 0301359A               | Special Army Program                                | 7   | 12,445               | 19,737  |         |         |

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DEPARTMENT OF THE ARMY  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

## APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                   |                   | S<br>E |
|------------|------------------------------|---|-----|----------------------|-------------------|-------------------|--------|
|            |                              |   |     | FY 2003              | FY 2004           | FY 2005 C         |        |
| 169        | 0301555A                     | CLASSIFIED PROGRAMS                                       | 7   |                      |                   |                   |        |
| 170        | 0301556A                     | SPECIAL PROGRAM   | 7   |                      |                   |                   |        |
| 171        | 0303028A                     | Security and Intelligence<br>Activities                   | 7   | 26,182               | 15,873            |                   | U      |
| 172        | 0303140A                     | Information Systems Security<br>Program                   | 7   | 22,153               | 20,500            |                   | U      |
| 173        | 0303141A                     | Global Combat Support System                              | 7   | 49,273               | 55,217            |                   | U      |
| 174        | 0303142A                     | SATCOM Ground Environment (SPACE)                         | 7   | 67,716               | 86,389            |                   | U      |
| 175        | 0303150A                     | WMCCS/Global Command and Control<br>System                | 7   | 16,704               | 16,934            |                   | U      |
| 176        | 0305114A                     | Traffic Control, Approach and<br>Landing System           | 7   | 934                  | 945               |                   | U      |
| 177        | 0305204A                     | Tactical Unmanned Aerial Vehicles<br>(JMIP)               | 7   | 68,650               | 68,629            |                   | U      |
| 178        | 0305206A                     | Airborne Reconnaissance Systems                           | 7   | 11,433               | 4,699             |                   | U      |
| 179        | 0305208A                     | Distributed Common Ground/Surface<br>Systems              | 7   | 44,805               | 37,375            |                   | U      |
| 180        | 0702239A                     | Avionics Component Improvement<br>Program                 | 7   |                      |                   | 997               | U      |
| 181        | 0708045A                     | End Item Industrial Preparedness<br>Activities            | 7   | 79,066               | 85,853            |                   | U      |
| 182        | 1001018A                     | NATO Joint STARS  | 7   | 503                  | 498               |                   | U      |
|            |                              | <b>Operational Systems Development</b>                    |     | <b>1,074,181</b>     | <b>1,096,509</b>  |                   |        |
|            |                              | <b>Total Research, Development, Test &amp; Eval, Army</b> |     | <b>7,594,576</b>     | <b>10,201,354</b> |                   |        |
|            |                              |   |     |                      |                   | <b>929,140</b>    |        |
|            |                              |   |     |                      |                   | <b>10,435,557</b> |        |

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## DEPARTMENT OF THE NAVY

## FY 2005 RDT&amp;E PROGRAM

SUMMARY  
(\$ IN THOUSANDS)

FEB 2004

Summary Recap of Budget Activities

|   | <u>FY 2003</u>    | <u>FY 2004</u>    | <u>FY 2005</u>    |
|---|-------------------|-------------------|-------------------|
| Basic Research  | 405,934           | 484,048           | 476,984           |
| Applied Research  | 778,159           | 723,697           | 564,067           |
| Advanced Technology Development                           | 813,556           | 1,009,367         | 677,172           |
| Advanced Component Development & Prototypes               | 2,660,947         | 2,807,473         | 2,803,667         |
| System Development & Demonstration                        | 5,184,832         | 6,359,897         | 8,008,517         |
| RDT&E Management Support                                  | 939,374           | 686,839           | 653,996           |
| Operational Systems Development                           | 2,917,062         | 2,898,174         | 3,161,988         |
| <b>Total Research, Development, Test &amp; Eval, Navy</b> | <b>13,699,864</b> | <b>14,969,495</b> | <b>16,346,391</b> |

Summary Recap of FYDP Programs

|   |                   |                   |                   |
|---|-------------------|-------------------|-------------------|
| Strategic Forces  | 86,511            | 132,359           | 192,034           |
| General Purpose Forces                                    | 943,705           | 951,287           | 941,570           |
| Intelligence and Communications                           | 1,419,840         | 1,575,795         | 1,060,115         |
| Guard and Reserve Forces                                  | 8,553             | 4,600             |                   |
| Research and Development                                  | 11,137,121        | 12,217,708        | 14,085,842        |
| Central Supply and Maintenance                            | 96,156            | 87,746            | 66,830            |
| Administration and Associated Activities                  | 7,978             |                   |                   |
| <b>Total Research, Development, Test &amp; Eval, Navy</b> | <b>13,699,864</b> | <b>14,969,495</b> | <b>16,346,391</b> |

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DEPARTMENT OF THE NAVY  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|----------------|----------------|-------------|
|            |                              |   |     | FY 2003              | FY 2004        | FY 2005        |             |
| 1          | 0601103N                     | University Research Initiatives                           | 1   |                      | 91,489         | 83,508         | U           |
| 2          | 0601152N                     | In-House Laboratory Independent Research                  | 1   | 12,878               | 17,196         | 17,664         | U           |
| 3          | 0601153N                     | Defense Research Sciences                                 | 1   | 393,056              | 375,363        | 375,812        | U           |
|            |                              | <b>Basic Research</b>                                     |     | <b>405,934</b>       | <b>484,048</b> | <b>476,984</b> |             |
| 4          | 0602114N                     | Power Projection Applied Research                         | 2   | 110,232              | 142,626        | 98,831         | U           |
| 5          | 0602123N                     | Force Protection Applied Research                         | 2   | 113,066              | 112,868        | 96,269         | U           |
| 6          | 0602131M                     | Marine Corps Landing Force Technology                     | 2   | 28,247               | 32,375         | 35,398         | U           |
| 7          | 0602232N                     | Communications, Command and Control, Intell, Surveillance | 2   | 1,333                |                |                | U           |
| 8          | 0602233N                     | Human Systems Technology                                  | 2   | 1,000                | 1,705          |                | U           |
| 9          | 0602234N                     | Materials, Electronics and Computer Technology            | 2   | 9,553                | 1,780          |                | U           |
| 10         | 0602235N                     | Common Picture Applied Research                           | 2   | 142,203              | 95,432         | 60,134         | U           |
| 11         | 0602236N                     | Warfighter Sustainment Applied Research                   | 2   | 102,075              | 100,645        | 63,726         | U           |
| 12         | 0602271N                     | RF Systems Applied Research                               | 2   | 69,232               | 49,244         | 49,151         | U           |
| 13         | 0602435N                     | Ocean Warfighting Environment Applied Research            | 2   | 66,431               | 62,305         | 48,482         | U           |
| 14         | 0602747N                     | Undersea Warfare Applied Research                         | 2   | 85,424               | 76,788         | 64,060         | U           |
| 15         | 0602782N                     | Mine and Expeditionary Warfare Applied Research           | 2   | 49,363               | 47,929         | 48,016         | U           |
|            |                              | <b>Applied Research</b>                                   |     | <b>778,159</b>       | <b>723,697</b> | <b>564,067</b> |             |
| 16         | 0603114N                     | Power Projection Advanced Technology                      | 3   | 176,336              | 260,688        | 92,359         | U           |
| 17         | 0603123N                     | Force Protection Advanced Technology                      | 3   | 89,085               | 119,838        | 82,130         | U           |

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DEPARTMENT OF THE NAVY  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                  |                | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|------------------|----------------|-------------|
|            |                              |   |     | FY 2003              | FY 2004          | FY 2005        |             |
| 18         | 0603235N                     | Common Picture Advanced Technology                      | 3   | 45,656               | 79,690           | 79,521         | U           |
| 19         | 0603236N                     | Warfighter Sustainment Advanced Technology              | 3   | 90,501               | 86,464           | 61,103         | U           |
| 20         | 0603271N                     | RF Systems Advanced Technology                          | 3   | 70,973               | 62,041           | 44,046         | U           |
| 21         | 0603640M                     | USMC Advanced Technology Demonstration (ATD)            | 3   | 73,607               | 90,110           | 58,222         | U           |
| 22         | 0603712N                     | Environmental Quality and Logistics Advanced Technology | 3   | 960                  |                  |                | U           |
| 23         | 0603727N                     | Navy Technical Information Presentation System          | 3   | 101,816              | 137,315          | 167,626        | U           |
| 24         | 0603729N                     | Warfighter Protection Advanced Technology               | 3   | 32,757               | 28,318           | 16,719         | U           |
| 25         | 0603747N                     | Undersea Warfare Advanced Technology                    | 3   | 45,080               | 46,544           | 26,515         | U           |
| 26         | 0603757N                     | Joint Warfare Experiments                               | 3   |                      | 19,956           | 26             | U           |
| 27         | 0603758N                     | Navy Warfighting Experiments and Demonstrations         | 3   | 42,138               | 39,490           | 16,006         | U           |
| 28         | 0603782N                     | Mine and Expeditionary Warfare Advanced Technology      | 3   | 42,266               | 38,913           | 32,899         | U           |
| 29         | 0603792N                     | Advanced Technology Transition                          | 3   | 2,381                |                  |                | U           |
|            |                              | <b>Advanced Technology Development</b>                  |     | <b>813,556</b>       | <b>1,009,367</b> | <b>677,172</b> |             |
| 30         | 0603207N                     | Air/Ocean Tactical Applications                         | 4   | 31,937               | 22,575           | 24,431         | U           |
| 31         | 0603216N                     | Aviation Survivability                                  | 4   | 20,359               | 21,628           | 10,820         | U           |
| 32         | 0603237N                     | Deployable Joint Command and Control                    | 4   | 31,527               | 63,541           | 42,394         | U           |
| 33         | 0603254N                     | ASW Systems Development                                 | 4   | 25,011               | 14,340           | 4,541          | U           |
| 34         | 0603261N                     | Tactical Airborne Reconnaissance                        | 4   | 1,877                | 2,029            | 6,448          | U           |
| 35         | 0603382N                     | Advanced Combat Systems Technology                      | 4   | 3,214                | 5,730            | 67,605         | U           |

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FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |         | S | E |
|------------|------------------------------|--|-----|----------------------|---------|---------|---|---|
|            |                              |  |     | FY 2003              | FY 2004 | FY 2005 |   |   |
| 36         | 0603502N                     | Surface and Shallow Water Mine Countermeasures | 4   | 140,512              | 145,678 | 103,308 | U |   |
| 37         | 0603506N                     | Surface Ship Torpedo Defense                   | 4   | 13,929               | 44,891  | 46,896  | U |   |
| 38         | 0603512N                     | Carrier Systems Development                    | 4   | 88,360               | 156,603 | 157,479 | U |   |
| 39         | 0603513N                     | Shipboard System Component Development         | 4   | 247,513              | 36,664  | 18,993  | U |   |
| 40         | 0603525N                     | PILOT FISH                                     | 4   | 71,613               | 93,860  | 78,223  | U |   |
| 41         | 0603527N                     | RETRACT LARCH                                  | 4   | 29,644               | 73,181  | 82,532  | U |   |
| 42         | 0603536N                     | RETRACT JUNIPER                                | 4   |                      | 20,258  | 36,915  | U |   |
| 43         | 0603542N                     | Radiological Control                           | 4   | 1,053                | 1,097   | 946     | U |   |
| 44         | 0603553N                     | Surface ASW                                    | 4   | 3,108                | 4,456   | 17,633  | U |   |
| 45         | 0603559N                     | SSGN Conversion                                | 4   | 79,126               | 69,405  | 19,970  | U |   |
| 46         | 0603561N                     | Advanced Submarine System Development          | 4   | 126,891              | 92,539  | 81,160  | U |   |
| 47         | 0603562N                     | Submarine Tactical Warfare Systems             | 4   | 12,502               | 6,948   | 5,957   | U |   |
| 48         | 0603563N                     | Ship Concept Advanced Design                   | 4   | 24,685               | 20,846  | 3,723   | U |   |
| 49         | 0603564N                     | Ship Preliminary Design & Feasibility Studies  | 4   | 2,180                |         |         | U |   |
| 50         | 0603570N                     | Advanced Nuclear Power Systems                 | 4   | 211,314              | 198,999 | 169,733 | U |   |
| 51         | 0603573N                     | Advanced Surface Machinery Systems             | 4   | 2,807                | 6,534   |         | U |   |
| 52         | 0603576N                     | CHALK EAGLE                                    | 4   | 29,815               | 17,127  | 47,786  | U |   |
| 53         | 0603581N                     | Littoral Combat Ship (LCS)                     | 4   | 35,322               | 166,180 | 352,089 | U |   |
| 54         | 0603582N                     | Combat System Integration                      | 4   | 57,957               | 97,969  | 80,840  | U |   |
| 55         | 0603609N                     | Conventional Munitions                         | 4   | 17,613               | 42,063  | 34,151  | U |   |
| 56         | 0603611M                     | Marine Corps Assault Vehicles                  | 4   | 263,299              | 237,893 | 236,969 | U |   |

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FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2003              | FY 2004 | FY 2005 |             |
| 57         | 0603612M                     | USMC Mine Countermeasures Systems<br>- Adv Dev                | 4   | 310                  | 1,202   | 4,522   | U           |
| 58         | 0603635M                     | Marine Corps Ground Combat/<br>Support System                 | 4   | 31,622               | 26,009  | 22,440  | U           |
| 59         | 0603654N                     | Joint Service Explosive Ordnance<br>Development               | 4   | 12,360               | 16,868  | 18,047  | U           |
| 60         | 0603658N                     | Cooperative Engagement  | 4   | 106,020              | 86,725  | 103,452 | U           |
| 61         | 0603713N                     | Ocean Engineering Technology<br>Development                   | 4   | 24,585               | 17,977  | 26,232  | U           |
| 62         | 0603721N                     | Environmental Protection                                      | 4   | 43,048               | 31,855  | 24,641  | U           |
| 63         | 0603724N                     | Navy Energy Program   | 4   | 14,712               | 4,636   | 1,494   | U           |
| 64         | 0603725N                     | Facilities Improvement  | 4   | 3,276                | 1,424   | 1,621   | U           |
| 65         | 0603734N                     | CHALK CORAL   | 4   | 67,617               | 60,718  | 58,467  | U           |
| 66         | 0603739N                     | Navy Logistic Productivity                                    | 4   | 28,844               | 17,989  | 7,421   | U           |
| 67         | 0603746N                     | RETRACT MAPLE   | 4   | 244,120              | 297,370 | 275,407 | U           |
| 68         | 0603748N                     | LINK PLUMERIA   | 4   | 80,453               | 104,186 | 112,997 | U           |
| 69         | 0603751N                     | RETRACT ELM   | 4   | 24,390               | 43,210  | 48,130  | U           |
| 70         | 0603755N                     | Ship Self Defense   | 4   | 9,101                | 9,625   | 9,493   | U           |
| 71         | 0603764N                     | LINK EVERGREEN  | 4   | 47,820               | 94,470  | 63,346  | U           |
| 72         | 0603787N                     | Special Processes   | 4   | 47,104               | 52,855  | 44,232  | U           |
| 73         | 0603790N                     | NATO Research and Development                                 | 4   | 12,804               | 11,338  | 10,151  | U           |
| 74         | 0603795N                     | Land Attack Technology  | 4   | 122,032              | 119,684 | 82,049  | U           |
| 75         | 0603851M                     | Nonlethal Weapons   | 4   | 24,797               | 43,929  | 43,321  | U           |
| 76         | 0603857N                     | All Service Combat Identification<br>Evaluation Team (ASCIET) | 4   | 13,715               | 14,886  | 13,626  | U           |
| 77         | 0603860N                     | Joint Precision Approach and<br>Landing Systems               | 4   | 12,217               | 24,034  | 32,391  | U           |

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DEPARTMENT OF THE NAVY  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2004

| Line<br>No   | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                  |         | S | E | C                |   |
|--|------------------------------|---|-----|----------------------|------------------|---------|---|---|------------------|---|
|  |                              |   |     | FY 2003              | FY 2004          | FY 2005 |   |   |                  |   |
| 78   | 0603879N                     | Single Integrated Air Picture (SIAP) System Engineer (SE)           | 4   | 67,034               | 14,411           |         |   |   | 20,252           | U |
| 79   | 0603889N                     | Counterdrug RDT&E Projects  | 4   | 16,200               |                  |         |   |   |                  | U |
| 80   | 0604272N                     | Tactical Air Directional Infrared Countermeasures (TADIRCM)         | 4   |                      | 11,866           |         |   |   |                  | U |
| 81   | 0604707N                     | Space and Electronic Warfare (SEW) Architecture/Engineering Support | 4   | 33,598               | 37,172           |         |   |   | 25,943           | U |
| 82   | 0604787N                     | Joint Warfare Transformation Programs                               | 4   |                      |                  |         |   |   | 22,450           | U |
| <b>Advanced Component Development &amp; Prototypes</b> |                              |   |     | <b>2,660,947</b>     | <b>2,807,473</b> |         |   |   | <b>2,803,667</b> |   |
| 83   | 0604212N                     | Other Helo Development  | 5   | 59,490               | 67,999           |         |   |   | 186,970          | U |
| 84   | 0604214N                     | AV-8B Aircraft - Eng Dev  | 5   | 17,712               | 8,630            |         |   |   | 12,284           | U |
| 85   | 0604215N                     | Standards Development   | 5   | 42,007               | 49,867           |         |   |   | 57,675           | U |
| 86   | 0604216N                     | Multi-Mission Helicopter Upgrade Development                        | 5   | 89,943               | 76,141           |         |   |   | 78,757           | U |
| 87   | 0604217N                     | S-3 Weapon System Improvement                                       | 5   | 398                  |                  |         |   |   |                  | U |
| 88   | 0604218N                     | Air/Ocean Equipment Engineering                                     | 5   | 7,332                | 3,041            |         |   |   | 4,506            | U |
| 89   | 0604221N                     | P-3 Modernization Program   | 5   | 887                  | 14,593           |         |   |   | 9,554            | U |
| 90   | 0604230N                     | Warfare Support System  | 5   |                      | 1,976            |         |   |   | 5,201            | U |
| 91   | 0604231N                     | Tactical Command System   | 5   | 68,220               | 65,443           |         |   |   | 49,180           | U |
| 92   | 0604234N                     | Advanced Hawkeye  | 5   | 107,043              | 343,306          |         |   |   | 597,015          | U |
| 93   | 0604245N                     | H-1 Upgrades  | 5   | 232,229              | 90,965           |         |   |   | 90,389           | U |
| 94   | 0604261N                     | Acoustic Search Sensors   | 5   | 13,311               | 16,940           |         |   |   | 13,363           | U |
| 95   | 0604262N                     | V-22A   | 5   | 387,421              | 402,483          |         |   |   | 304,164          | U |
| 96   | 0604264N                     | Air Crew Systems Development  | 5   | 7,354                | 16,183           |         |   |   | 8,838            | U |
| 97   | 0604269N                     | EA-18   | 5   |                      |                  |         |   |   | 357,502          | U |

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DEPARTMENT OF THE NAVY  
FY 2005 ROTEE PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |           |           | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|-----------|-----------|-------------|
|            |                              |   |     | FY 2003              | FY 2004   | FY 2005   |             |
| 98         | 0604270N                     | Electronic Warfare Development                    | 5   | 88,509               | 275,422   | 48,956    | U           |
| 99         | 0604273N                     | VHXX Executive Helo Development                   | 5   |                      | 195,233   | 777,398   | U           |
| 100        | 0604280N                     | Joint Tactical Radio System -<br>Navy (JTRS-Navy) | 5   | 19,231               | 88,601    | 78,624    | U           |
| 101        | 0604300N                     | SC-21 Total Ship System<br>Engineering            | 5   | 668,472              | 1,052,273 | 1,431,585 | U           |
| 102        | 0604307N                     | Surface Combatant Combat System<br>Engineering    | 5   | 331,213              | 213,470   | 146,463   | U           |
| 103        | 0604311N                     | LPD-17 Class Systems Integration                  | 5   | 9,621                | 8,888     | 8,988     | U           |
| 104        | 0604312N                     | Tri-Service Standoff Attack<br>Missile            | 5   | 16,146               | 20,901    | 27,047    | U           |
| 105        | 0604329N                     | Small Diameter Bomb (SDB)                         | 5   | 100                  |           | 9,961     | U           |
| 106        | 0604366N                     | Standard Missile Improvements                     | 5   | 24,244               | 81,014    | 99,022    | U           |
| 107        | 0604373N                     | Airborne MCM                                      | 5   | 73,600               | 90,981    | 50,514    | U           |
| 108        | 0604503N                     | SSN-688 and Trident Modernization                 | 5   | 120,050              | 76,997    | 75,359    | U           |
| 109        | 0604504N                     | Air Control                                       | 5   | 5,904                | 10,355    | 13,102    | U           |
| 110        | 0604507N                     | Enhanced Modular Signal Processor                 | 5   | 501                  | 994       | 1,075     | U           |
| 111        | 0604512N                     | Shipboard Aviation Systems                        | 5   | 24,311               | 23,586    | 28,631    | U           |
| 112        | 0604518N                     | Combat Information Center<br>Conversion           | 5   |                      | 13,093    | 8,228     | U           |
| 113        | 0604558N                     | New Design SSN                                    | 5   | 234,592              | 144,576   | 143,270   | U           |
| 114        | 0604561N                     | SSN-21 Developments                               | 5   | 15,957               | 23,827    | 3,020     | U           |
| 115        | 0604562N                     | Submarine Tactical Warfare System                 | 5   | 24,445               | 32,354    | 43,404    | U           |
| 116        | 0604567N                     | Ship Contract Design/ Live Fire<br>T&E            | 5   | 196,697              | 134,061   | 130,908   | U           |
| 117        | 0604574N                     | Navy Tactical Computer Resources                  | 5   | 15,377               | 12,521    | 2,381     | U           |
| 118        | 0604601N                     | Mine Development                                  | 5   | 1,455                | 1,480     | 6,123     | U           |

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DEPARTMENT OF THE NAVY  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |           |           | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|-----------|-----------|-------------|
|            |                              |  |     | FY 2003              | FY 2004   | FY 2005   |             |
| 119        | 0604603N                     | Unguided Conventional<br>Air-Launched Weapons                          | 5   | 13,415               | 12,065    |           | U           |
| 120        | 0604610N                     | Lightweight Torpedo Development  | 5   | 18,745               | 6,173     | 9,965     | U           |
| 121        | 0604618N                     | Joint Direct Attack Munition   | 5   | 46,904               |           |           | U           |
| 122        | 0604654N                     | Joint Service Explosive Ordnance<br>Development                        | 5   | 7,295                | 8,046     | 8,081     | U           |
| 123        | 0604703N                     | Personnel, Training, Simulation,<br>and Human Factors                  | 5   | 1,383                | 1,919     | 3,005     | U           |
| 124        | 0604710N                     | Navy Energy Program  | 5   | 6,641                |           |           | U           |
| 125        | 0604721N                     | Battle Group Passive Horizon<br>Extension System                       | 5   | 16,849               | 16,743    | 17,981    | U           |
| 126        | 0604727N                     | Joint Standoff Weapon Systems  | 5   | 16,685               | 4,969     | 9,531     | U           |
| 127        | 0604755N                     | Ship Self Defense (Detect &<br>Control)                                | 5   | 60,138               | 42,237    | 48,154    | U           |
| 128        | 0604756N                     | Ship Self Defense (Engage: Hard<br>Kill)                               | 5   | 26,120               | 24,300    | 51,213    | U           |
| 129        | 0604757N                     | Ship Self Defense (Engage: Soft<br>Kill/EW)                            | 5   | 42,818               | 53,506    | 28,233    | U           |
| 130        | 0604771N                     | Medical Development  | 5   | 65,421               | 66,788    | 6,942     | U           |
| 131        | 0604777N                     | Navigation/ID System   | 5   | 45,080               | 45,168    | 28,104    | U           |
| 132        | 0604784N                     | Distributed Surveillance System  | 5   | 37,591               | 32,907    | 7,776     | U           |
| 133        | 0604800N                     | Joint Strike Fighter (JSF)   | 5   | 1,661,509            | 2,159,197 | 2,264,507 | U           |
| 134        | 0604910N                     | Smart Card   | 5   | 623                  | 546       | 695       | U           |
| 135        | 0605013M                     | Information Technology Development                                     | 5   | 18,060               | 10,063    | 9,301     | U           |
| 136        | 0605013N                     | Information Technology Development                                     | 5   | 69,827               | 65,622    | 109,543   | U           |
| 137        | 0605014N                     | Defense Integrated Military Human<br>Resources System (DIMHRS) - RDT&E | 5   | 51,788               | 75,441    |           | U           |

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FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|------------------|------------------|-------------|
|            |                              |   |     | FY 2003              | FY 2004          | FY 2005          |             |
| 138        | 0605500N                     | Multi-mission Maritime Aircraft (MMA)             | 5   | 65,615               | 71,413           | 496,029          | U           |
| 139        | 0508713N                     | Navy Standard Integrated Personnel System (NSIPS) | 5   | 8,553                | 4,600            |                  | U           |
|            |                              | <b>System Development &amp; Demonstration</b>     |     | <b>5,184,832</b>     | <b>6,359,897</b> | <b>8,008,517</b> |             |
| 140        | 0604256N                     | Threat Simulator Development                      | 6   | 25,725               | 27,692           | 23,866           | U           |
| 141        | 0604258N                     | Target Systems Development                        | 6   | 45,856               | 37,219           | 35,677           | U           |
| 142        | 0604759N                     | Major T&E Investment                              | 6   | 39,851               | 44,178           | 39,787           | U           |
| 143        | 0605152N                     | Studies and Analysis Support - Navy               | 6   | 6,042                | 7,570            | 2,183            | U           |
| 144        | 0605154N                     | Center for Naval Analyses                         | 6   | 43,720               | 37,918           | 43,982           | U           |
| 145        | 0605155N                     | Fleet Tactical Development                        | 6   | 2,639                | 1,984            | 2,338            | U           |
| 146        | 0605502N                     | Small Business Innovative Research                | 6   | 226,342              |                  |                  | U           |
| 147        | 0605804N                     | Technical Information Services                    | 6   | 18,116               | 27,270           | 696              | U           |
| 148        | 0605853N                     | Management, Technical & International Support     | 6   | 50,482               | 30,901           | 31,407           | U           |
| 149        | 0605856N                     | Strategic Technical Support                       | 6   | 2,247                | 3,837            | 3,493            | U           |
| 150        | 0605861N                     | RDT&E Science and Technology Management           | 6   | 59,940               | 64,162           | 66,117           | U           |
| 151        | 0605862N                     | RDT&E Instrumentation Modernization               | 6   | 12,910               | 13,402           | 19,370           | U           |
| 152        | 0605863N                     | RDT&E Ship and Aircraft Support                   | 6   | 74,262               | 77,772           | 81,308           | U           |
| 153        | 0605864N                     | Test and Evaluation Support                       | 6   | 270,550              | 256,582          | 255,926          | U           |
| 154        | 0605865N                     | Operational Test and Evaluation Capability        | 6   | 11,355               | 11,959           | 13,044           | U           |
| 155        | 0605866N                     | Navy Space and Electronic Warfare (SEW) Support   | 6   | 3,082                | 3,140            | 2,941            | U           |

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FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2004

| Line<br>No                          | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|-------------------------------------|------------------------------|--|-----|----------------------|----------------|----------------|-------------|
|                                     |                              |  |     | FY 2003              | FY 2004        | FY 2005        |             |
| 156                                 | 0605867N                     | SEW Surveillance/Reconnaissance Support                | 6   | 11,836               | 11,956         | 12,160         | U           |
| 157                                 | 0605873M                     | Marine Corps Program Wide Support                      | 6   | 26,441               | 29,297         | 19,701         | U           |
| 158                                 | 0909999N                     | Financing for Cancelled Account Adjustments            | 6   | 7,978                |                |                | U           |
| <b>RDT&amp;E Management Support</b> |                              |  |     | <b>939,374</b>       | <b>686,839</b> | <b>653,996</b> |             |
| 159                                 | 0603660N                     | Advanced Development Projects                          | 7   |                      |                |                |             |
| 160                                 | 0603661N                     | Retract Violet   | 7   |                      |                |                |             |
| 161                                 | 0101221N                     | Strategic Sub & Weapons System Support                 | 7   | 38,099               | 65,454         | 108,782        | U           |
| 162                                 | 0101224N                     | SSBN Security Technology Program                       | 7   | 32,718               | 37,981         | 43,408         | U           |
| 163                                 | 0101226N                     | Submarine Acoustic Warfare Development                 | 7   | 1,057                | 5,889          | 8,453          | U           |
| 164                                 | 0101402N                     | Navy Strategic Communications                          | 7   | 14,637               | 23,035         | 31,391         | U           |
| 165                                 | 0203761N                     | Rapid Technology Transition (RTT)                      | 7   |                      | 9,889          | 14,630         | U           |
| 166                                 | 0204136N                     | F/A-18 Squadrons                                       | 7   | 204,131              | 172,743        | 134,580        | U           |
| 167                                 | 0204152N                     | E-2 Squadrons  | 7   | 18,878               | 19,331         | 6,055          | U           |
| 168                                 | 0204163N                     | Fleet Telecommunications (Tactical)                    | 7   | 12,048               | 23,123         | 19,784         | U           |
| 169                                 | 0204229N                     | Tomahawk and Tomahawk Mission Planning Center (TMPC)   | 7   | 97,284               | 76,524         | 28,776         | U           |
| 170                                 | 0204311N                     | Integrated Surveillance System                         | 7   | 25,186               | 14,117         | 16,965         | U           |
| 171                                 | 0204413N                     | Amphibious Tactical Support Units (Displacement Craft) | 7   | 6,106                | 5,589          | 2,604          | U           |
| 172                                 | 0204571N                     | Consolidated Training Systems Development              | 7   | 25,974               | 22,460         | 21,644         | U           |
| 173                                 | 0204574N                     | Cryptologic Direct Support                             | 7   |                      | 1,448          | 1,460          | U           |

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DEPARTMENT OF THE NAVY  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|---------|---------|-------------|
|            |                              |  |     | FY 2003              | FY 2004 | FY 2005 |             |
| 174        | 0204575N                     | Electronic Warfare (EW) Readiness Support          | 7   | 25,906               | 11,794  | 12,139  | U           |
| 175        | 0205601N                     | HARM Improvement                                   | 7   | 58,793               | 51,601  | 163,371 | U           |
| 176        | 0205604N                     | Tactical Data Links                                | 7   | 40,024               | 43,971  | 18,977  | U           |
| 177        | 0205620N                     | Surface ASW Combat System Integration              | 7   | 36,065               | 23,118  | 10,612  | U           |
| 178        | 0205632N                     | MK-48 ADCAP  | 7   | 21,323               | 17,036  | 21,620  | U           |
| 179        | 0205633N                     | Aviation Improvements                              | 7   | 38,878               | 68,552  | 62,635  | U           |
| 180        | 0205658N                     | Navy Science Assistance Program                    | 7   | 15,459               | 7,098   | 3,821   | U           |
| 181        | 0205675N                     | Operational Nuclear Power Systems                  | 7   | 55,430               | 62,052  | 64,554  | U           |
| 182        | 0206313M                     | Marine Corps Communications Systems                | 7   | 197,524              | 247,179 | 268,638 | U           |
| 183        | 0206623M                     | Marine Corps Ground Combat/Supporting Arms Systems | 7   | 37,552               | 41,960  | 44,828  | U           |
| 184        | 0206624M                     | Marine Corps Combat Services Support               | 7   | 16,682               | 20,493  | 10,731  | U           |
| 185        | 0207161N                     | Tactical AIM Missiles                              | 7   | 2,812                | 2,236   | 4,061   | U           |
| 186        | 0207163N                     | Advanced Medium Range Air-to-Air Missile (AMRAAM)  | 7   | 7,650                | 8,973   | 9,085   | U           |
| 187        | 0301303N                     | Maritime Intelligence                              | 7   |                      |         |         |             |
| 188        | 0301323N                     | Collection Management                              | 7   |                      |         |         |             |
| 189        | 0301327N                     | Technical Reconnaissance and Surveillance          | 7   |                      |         |         |             |
| 190        | 0303109N                     | Satellite Communications (SPACE)                   | 7   | 110,463              | 267,665 | 573,092 | U           |
| 191        | 0303140N                     | Information Systems Security Program               | 7   | 25,733               | 25,366  | 18,676  | U           |
| 192        | 0304111N                     | Special Activities                                 | 7   |                      |         |         |             |
| 193        | 0305149N                     | COBRA JUDY   | 7   | 50,510               | 68,583  | 80,694  | U           |

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FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                   |                   | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|-------------------|-------------------|-------------|
|            |                              |   |     | FY 2003              | FY 2004           | FY 2005           |             |
| 194        | 0305160N                     | Navy Meteorological and Ocean<br>Sensors-Space (METOC)    | 7   | 21,833               | 7,878             | 4,215             | U           |
| 195        | 0305188N                     | Joint C4ISR Battle Center (JBC)                           | 7   | 29,371               | 44,865            | 43,569            | U           |
| 196        | 0305192N                     | Joint Military Intelligence<br>Programs                   | 7   | 6,971                | 5,246             | 4,746             | U           |
| 197        | 0305204N                     | Tactical Unmanned Aerial Vehicles<br>(JMIP)               | 7   | 253,844              | 85,713            | 53,439            | U           |
| 198        | 0305205N                     | Endurance Unmanned Aerial Vehicles                        | 7   |                      | 100,212           | 113,438           | U           |
| 199        | 0305206N                     | Airborne Reconnaissance Systems                           | 7   | 16,171               | 26,989            | 10,191            | U           |
| 200        | 0305207N                     | Manned Reconnaissance Systems<br>(JMIP)                   | 7   | 22,505               | 16,521            | 20,203            | U           |
| 201        | 0305208N                     | Distributed Common Ground/Surface<br>Systems              | 7   | 8,518                | 8,818             | 3,635             | U           |
| 202        | 0305927N                     | Naval Space Surveillance                                  | 7   | 5,017                |                   |                   | U           |
| 203        | 0307207N                     | Aerial Common Sensor (ACS) (JMIP)                         | 7   |                      |                   | 24,909            | U           |
| 204        | 0308601N                     | Modeling and Simulation Support                           | 7   | 9,455                | 13,475            | 7,262             | U           |
| 205        | 0702207N                     | Depot Maintenance (Non-IF)                                | 7   | 12,839               | 8,972             |                   | U           |
| 206        | 0708011N                     | Industrial Preparedness                                   | 7   | 71,704               | 64,270            | 56,565            | U           |
| 207        | 0708730N                     | Maritime Technology (MARITECH)                            | 7   | 11,613               | 14,504            | 10,265            | U           |
|            |                              | <b>Operational Systems Development</b>                    |     | <b>2,917,062</b>     | <b>2,898,174</b>  | <b>3,161,988</b>  |             |
|            |                              | <b>Total Research, Development, Test &amp; Eval, Navy</b> |     | <b>13,699,864</b>    | <b>14,969,495</b> | <b>16,346,391</b> |             |

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## DEPARTMENT OF THE AIR FORCE

## FY 2005 RDT&amp;E PROGRAM

## SUMMARY

(\$ IN THOUSANDS)

FEB 2004

Summary Recap of Budget Activities

|   | <u>FY 2003</u>    | <u>FY 2004</u>    | <u>FY 2005</u>    |
|---|-------------------|-------------------|-------------------|
| Basic Research  | 211,559           | 331,171           | 345,500           |
| Applied Research  | 824,951           | 896,694           | 786,180           |
| Advanced Technology Development                         | 700,364           | 1,093,020         | 786,994           |
| Advanced Component Development & Prototypes             | 1,429,066         | 2,032,666         | 2,384,536         |
| System Development & Demonstration                      | 4,381,477         | 4,543,591         | 4,708,025         |
| RDT&E Management Support                                | 921,213           | 638,682           | 747,114           |
| Operational Systems Development                         | 10,465,945        | 10,757,771        | 11,356,318        |
| <b>Total Research, Development, Test &amp; Eval, AF</b> | <b>18,934,575</b> | <b>20,293,595</b> | <b>21,114,667</b> |

Summary Recap of FYDP Programs

|   |                   |                   |                   |
|---|-------------------|-------------------|-------------------|
| Strategic Forces  | 107,691           | 111,041           | 101,161           |
| General Purpose Forces                                  | 2,381,718         | 2,727,002         | 3,518,983         |
| Intelligence and Communications                         | 7,250,372         | 7,165,450         | 7,853,765         |
| Mobility Forces   | 642,828           | 770,491           | 835,980           |
| Research and Development                                | 8,376,099         | 9,310,187         | 8,583,180         |
| Central Supply and Maintenance                          | 117,505           | 141,549           | 91,277            |
| Training Medical and Other                              | 299               | 3,230             | 3,372             |
| Administration and Associated Activities                | 54,423            | 60,811            | 123,004           |
| Support of Other Nations                                | 3,640             | 3,834             | 3,945             |
| <b>Total Research, Development, Test &amp; Eval, AF</b> | <b>18,934,575</b> | <b>20,293,595</b> | <b>21,114,667</b> |

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DEPARTMENT OF THE AIR FORCE  
FY 2005 ROTEE PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600F Research, Development, Test &amp; Eval, AF

Date: FEB 2004

| Line<br>No              | Program<br>Element<br>Number | Item                                    | Act | Thousands of Dollars |                |                | S<br>E |
|-------------------------|------------------------------|---|-----|----------------------|----------------|----------------|--------|
|                         |                              |   |     | FY 2003              | FY 2004        | FY 2005 C      |        |
| 1                       | 0601102F                     | Defense Research Sciences               | 1   | 211,559              | 212,897        | 217,304        | U      |
| 2                       | 0601103F                     | University Research Initiatives         | 1   |                      | 106,313        | 115,865        | U      |
| 3                       | 0601108F                     | High Energy Laser Research Initiatives  | 1   |                      | 11,961         | 12,331         | U      |
| <b>Basic Research</b>   |                              |   |     | <b>211,559</b>       | <b>331,171</b> | <b>345,500</b> |        |
| 4                       | 0602102F                     | Materials                               | 2   | 105,237              | 109,222        | 73,660         | U      |
| 5                       | 0602201F                     | Aerospace Vehicle Technologies          | 2   | 75,067               | 64,311         | 74,679         | U      |
| 6                       | 0602202F                     | Human Effectiveness Applied Research    | 2   | 75,229               | 87,143         | 71,483         | U      |
| 7                       | 0602203F                     | Aerospace Propulsion                    | 2   | 135,403              | 126,988        | 92,650         | U      |
| 8                       | 0602204F                     | Aerospace Sensors                       | 2   | 77,172               | 86,405         | 78,804         | U      |
| 9                       | 0602500F                     | Multi-disciplinary Space Technology     | 2   | 95,779               | 101,360        | 84,581         | U      |
| 10                      | 0602601F                     | Space Technology                        | 2   | 74,889               | 101,539        | 88,909         | U      |
| 11                      | 0602602F                     | Conventional Munitions                  | 2   | 62,802               | 46,061         | 52,251         | U      |
| 12                      | 0602605F                     | Directed Energy Technology              | 2   | 35,661               | 42,077         | 36,532         | U      |
| 13                      | 0602702F                     | Command Control and Communications      | 2   | 77,637               | 79,594         | 82,147         | U      |
| 14                      | 0602805F                     | Dual Use Science and Technology Program | 2   | 10,075               | 10,496         | 5,151          | U      |
| 15                      | 0602890F                     | High Energy Laser Research              | 2   |                      | 41,498         | 45,333         | U      |
| <b>Applied Research</b> |                              |   |     | <b>824,951</b>       | <b>896,694</b> | <b>786,180</b> |        |
| 16                      | 0603112F                     | Advanced Materials for Weapon Systems   | 3   | 39,746               | 61,948         | 34,284         | U      |
| 17                      | 0603203F                     | Advanced Aerospace Sensors              | 3   | 50,988               | 41,124         | 30,634         | U      |
| 18                      | 0603205F                     | Flight Vehicle Technology               | 3   | 3,463                | 992            |                | U      |
| 19                      | 0603211F                     | Aerospace Technology Dev/Demo           | 3   | 27,767               | 47,610         | 29,145         | U      |

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DEPARTMENT OF THE AIR FORCE  
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EXHIBIT R-1

APPROPRIATION: 3600F Research, Development, Test &amp; Eval, AF

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                  |                | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|------------------|----------------|-------------|
|            |                              |  |     | FY 2003              | FY 2004          | FY 2005        |             |
| 20         | 0603216F                     | Aerospace Propulsion and Power Technology                | 3   | 84,067               | 93,425           | 79,914         | U           |
| 21         | 0603231F                     | Crew Systems and Personnel Protection Technology         | 3   | 37,959               | 42,822           | 32,794         | U           |
| 22         | 0603270F                     | Electronic Combat Technology                             | 3   | 24,000               | 34,597           | 28,282         | U           |
| 23         | 0603311F                     | Ballistic Missile Technology                             | 3   | 12,795               | 11,402           |                | U           |
| 24         | 0603333F                     | Unmanned Air Vehicle Dev/Demo                            | 3   | 16,719               |                  |                | U           |
| 25         | 0603401F                     | Advanced Spacecraft Technology                           | 3   | 52,424               | 96,912           | 60,124         | U           |
| 26         | 0603444F                     | Maul Space Surveillance System (MSSS)                    | 3   | 47,130               | 51,581           | 6,306          | U           |
| 27         | 0603500F                     | Multi-disciplinary Advanced Development Space Technology | 3   | 51,688               | 62,077           | 51,114         | U           |
| 28         | 0603601F                     | Conventional Weapons Technology                          | 3   | 45,070               | 37,198           | 22,398         | U           |
| 29         | 0603605F                     | Advanced Weapons Technology                              | 3   | 71,649               | 61,221           | 31,103         | U           |
| 30         | 0603723F                     | Environmental Engineering Technology                     | 3   | 1,152                | 1,190            |                | U           |
| 31         | 0603789F                     | C3I Advanced Development                                 | 3   | 43,160               | 44,917           | 28,524         | U           |
| 32         | 0603801F                     | Special Programs   | 3   | 90,587               | 363,861          | 320,503        | U           |
| 33         | 0603850F                     | Integrated Broadcast Service                             | 3   |                      | 8,464            | 2,294          | U           |
| 34         | 0603924F                     | High Energy Laser Advanced Technology Program            | 3   |                      | 10,818           | 8,547          | U           |
| 35         | 0207423F                     | Advanced Communications Systems                          | 3   |                      | 11,951           | 12,051         | U           |
| 36         | 0401840F                     | AMC Command and Control System                           | 3   |                      | 5,995            | 6,038          | U           |
| 37         | 0804757F                     | Joint National Training Center                           | 3   |                      | 2,915            | 2,939          | U           |
|            |                              | <b>Advanced Technology Development</b>                   |     | <b>700,364</b>       | <b>1,093,020</b> | <b>786,994</b> |             |
| 38         | 0603260F                     | Intelligence Advanced Development                        | 4   | 7,144                | 4,453            | 4,612          | U           |
| 39         | 0603287F                     | Physical Security Equipment                              | 4   |                      | 24,275           | 22,640         | U           |

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Date: FEB 2004

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| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2003              | FY 2004 | FY 2005 |             |
| 40         | 0603421F                     | NAVSTAR Global Positioning System<br>III                                      | 4   | 46,633               |         | 40,568  | U           |
| 41         | 0603430F                     | Advanced EHF MILSATCOM (SPACE)  | 4   | 802,648              | 802,341 | 612,049 | U           |
| 42         | 0603432F                     | Polar MILSATCOM (SPACE)   | 4   | 22,398               | 5,533   | 960     | U           |
| 43         | 0603434F                     | National Polar-orbiting<br>Operational Environmental<br>Satellite Sys (SPACE) | 4   | 232,082              | 264,681 |         | U           |
| 44         | 0603438F                     | Space Control Technology  | 4   | 12,787               | 14,547  | 15,046  | U           |
| 45         | 0603742F                     | Combat Identification Technology  | 4   | 11,580               | 16,434  | 19,582  | U           |
| 46         | 0603790F                     | NATO Research and Development   | 4   | 4,070                | 3,855   | 3,930   | U           |
| 47         | 0603791F                     | International Space Cooperative<br>R&D  | 4   | 614                  | 540     | 552     | U           |
| 48         | 0603845F                     | Transformational SATCOM (TSAT)  | 4   | 111,485              | 335,430 | 774,836 | U           |
| 49         | 0603850F                     | Integrated Broadcast Service  | 4   | 38,390               | 16,229  | 23,927  | U           |
| 50         | 0603851F                     | Intercontinental Ballistic Missile  | 4   | 56,741               | 60,117  | 72,503  | U           |
| 51         | 0603854F                     | Wideband Gapfiller System RDT&E<br>(Space)                                    | 4   | 13,801               | 36,271  | 73,499  | U           |
| 52         | 0603856F                     | Air Force/National Program<br>Cooperation (AFNPC)                             | 4   | 2,341                |         |         | U           |
| 53         | 0603858F                     | Space-Based Radar   | 4   | 45,402               | 172,625 | 327,732 | U           |
| 54         | 0603859F                     | Pollution Prevention  | 4   | 3,527                | 4,777   | 2,692   | U           |
| 55         | 0603860F                     | Joint Precision Approach and<br>Landing Systems                               | 4   | 10,470               | 13,621  | 18,385  | U           |
| 56         | 0604015F                     | Next Generation Bomber  | 4   |                      | 44,618  |         | U           |
| 57         | 0604327F                     | Hard and Deeply Buried Target<br>Defeat System (HDBTDS) Program               | 4   | 6,953                | 9,551   | 6,383   | U           |
| 58         | 0604731F                     | Unmanned Combat Air Vehicle (UCAV)  | 4   |                      | 159,899 |         | U           |
| 59         | 0604855F                     | Operationally Responsive Launch   | 4   |                      | 25,844  | 35,362  | U           |

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| Line<br>No   | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|--|------------------------------|---|-----|----------------------|------------------|------------------|-------------|
|  |                              |   |     | FY 2003              | FY 2004          | FY 2005          |             |
| 60   | 0604856F                     | Common Aero Vehicle (CAV)   | 4   |                      | 17,025           | 21,610           | U           |
| 61   | 0305178F                     | National Polar-Orbiting<br>Operational Environmental<br>Satellite System (NPOESS) | 4   |                      |                  | 307,668          | U           |
| <b>Advanced Component Development &amp; Prototypes</b> |                              |   |     | <b>1,429,066</b>     | <b>2,032,666</b> | <b>2,384,536</b> |             |
| 62   | 0603840F                     | Global Broadcast Service (GBS)  | 5   | 20,910               | 37,823           | 33,447           | U           |
| 63   | 0604012F                     | Joint Helmet Mounted Cueing<br>System (JHMCS)                                     | 5   | 1,753                | 836              | 2,867            | U           |
| 64   | 0604222F                     | Nuclear Weapons Support   | 5   | 13,091               | 13,244           | 13,301           | U           |
| 65   | 0604226F                     | B-1B  | 5   | 150,427              | 87,933           | 59,462           | U           |
| 66   | 0604233F                     | Specialized Undergraduate Flight<br>Training                                      | 5   | 1,772                | 3,239            | 3,359            | U           |
| 67   | 0604239F                     | F-22  | 5   | 843,999              | 615,467          | 210,000          | U           |
| 68   | 0604240F                     | B-2 Advanced Technology Bomber  | 5   | 232,151              | 165,920          | 245,049          | U           |
| 69   | 0604270F                     | Electronic Warfare Development  | 5   | 68,781               | 97,004           | 138,393          | U           |
| 70   | 0604280F                     | Joint Tactical Radio  | 5   | 13,667               | 38,096           | 49,856           | U           |
| 71   | 0604287F                     | Physical Security Equipment   | 5   |                      | 7,199            | 9,744            | U           |
| 72   | 0604329F                     | Small Diameter Bomb (SDB)   | 5   | 56,292               | 125,373          | 76,489           | U           |
| 73   | 0604421F                     | Counterspace Systems  | 5   | 37,077               | 81,629           | 75,863           | U           |
| 74   | 0604435F                     | Advanced Polar MILSATCOM  | 5   |                      | 13,584           |                  | U           |
| 75   | 0604441F                     | Space Based Infrared System<br>(SBIRS) High EMD                                   | 5   | 775,346              | 610,230          | 508,448          | U           |
| 76   | 0604479F                     | Milstar LDR/MDR Satellite<br>Communications (SPACE)                               | 5   | 148,291              | 1,367            | 1,380            | U           |
| 77   | 0604600F                     | Munitions Dispenser Development   | 5   | 3,363                | 17,499           | 28,048           | U           |
| 78   | 0604602F                     | Armament/Ordnance Development   | 5   | 8,530                | 8,347            | 8,353            | U           |
| 79   | 0604604F                     | Submunitions  | 5   | 4,376                | 4,677            | 4,824            | U           |

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|------------|------------------------------|--|-----|----------------------|-----------|-----------|-------------|
|            |                              |  |     | FY 2003              | FY 2004   | FY 2005   |             |
| 80         | 0604617F                     | Agile Combat Support                                 | 5   | 7,870                | 13,360    | 10,053    | U           |
| 81         | 0604618F                     | Joint Direct Attack Munition                         | 5   | 17,021               | 35,159    |           | U           |
| 82         | 0604706F                     | Life Support Systems                                 | 5   | 9,982                | 5,026     | 6,630     | U           |
| 83         | 0604731F                     | Unmanned Combat Air Vehicle (UCAV)                   | 5   | 37,541               | 14,550    |           | U           |
| 84         | 0604735F                     | Combat Training Ranges                               | 5   | 15,244               | 24,077    | 18,714    | U           |
| 85         | 0604740F                     | Integrated Command & Control Applications (IC2A)     | 5   | 12,573               | 11,105    | 258       | U           |
| 86         | 0604750F                     | Intelligence Equipment                               | 5   | 1,277                | 2,290     | 1,349     | U           |
| 87         | 0604754F                     | Tactical Data Link Infrastructure                    | 5   |                      | 14,550    |           | U           |
| 88         | 0604762F                     | Common Low Observables Verification System (CLOVERS) | 5   | 4,695                | 6,941     | 10,303    | U           |
| 89         | 0604800F                     | Joint Strike Fighter (JSF)                           | 5   | 1,612,826            | 2,092,547 | 2,307,420 | U           |
| 90         | 0604851F                     | Intercontinental Ballistic Missile                   | 5   | 119,689              | 172,713   | 91,687    | U           |
| 91         | 0604853F                     | Evolved Expendable Launch Vehicle Program (SPACE)    | 5   | 55,782               | 7,909     | 27,000    | U           |
| 92         | 0605011F                     | RDT&E for Aging Aircraft                             | 5   | 32,081               | 40,615    | 15,665    | U           |
| 93         | 0207131F                     | A-10 Squadrons                                       | 5   |                      | 13,881    |           | U           |
| 94         | 0207256F                     | Unmanned Combat Air Vehicle Joint Program Office     | 5   |                      | 2,372     | 2,911     | U           |
| 95         | 0207434F                     | Link-16 Support and Sustainment                      | 5   | 50,535               | 70,481    | 141,012   | U           |
| 96         | 0207443F                     | Family of Interoperable Operational Pictures (FIOP)  | 5   |                      |           | 44,947    | U           |
| 97         | 0207450F                     | Multi-Sensor C2 Aircraft (MC2A)                      | 5   |                      |           | 538,860   | U           |
| 98         | 0207701F                     | Full Combat Mission Training                         | 5   | 3,585                | 6,887     | 5,894     | U           |
| 99         | 0305176F                     | Combat Survivor Evader Locator                       | 5   | 13,214               | 14,517    |           | U           |

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|------------|------------------------------|--|-----|----------------------|-----------|-----------|-------------|
|            |                              |  |     | FY 2003              | FY 2004   | FY 2005   |             |
| 100        | 0401318F                     | CV-22  | 5   | 7,736                | 65,144    | 16,439    | U           |
|            |                              |  |     | 4,381,477            | 4,543,591 | 4,708,025 |             |
|            |                              | <b>System Development &amp; Demonstration</b>                          |     |                      |           |           |             |
| 101        | 0604256F                     | Threat Simulator Development   | 6   | 28,836               | 36,283    | 34,517    | U           |
| 102        | 0604759F                     | Major T&E Investment   | 6   | 58,331               | 60,992    | 58,933    | U           |
| 103        | 0605101F                     | RAND Project Air Force   | 6   | 29,460               | 24,377    | 24,970    | U           |
| 104        | 0605306F                     | Ranch Hand II Epidemiology Study                                       | 6   | 10,074               | 4,652     | 4,813     | U           |
| 105        | 0605502F                     | Small Business Innovation Research                                     | 6   | 274,413              |           |           | U           |
| 106        | 0605712F                     | Initial Operational Test & Evaluation                                  | 6   | 36,320               | 34,343    | 28,839    | U           |
| 107        | 0605807F                     | Test and Evaluation Support  | 6   | 382,938              | 326,918   | 356,266   | U           |
| 108        | 0605860F                     | Rocket Systems Launch Program (SPACE)                                  | 6   | 28,731               | 22,976    | 7,984     | U           |
| 109        | 0605864F                     | Space Test Program (STP)   | 6   | 46,175               | 38,579    | 44,521    | U           |
| 110        | 0605976F                     | Facilities Restoration and Modernization - Test and Evaluation Support | 6   |                      | 33,652    | 58,936    | U           |
| 111        | 0605978F                     | Facilities Sustainment - Test and Evaluation Support                   | 6   |                      | 15,636    | 23,067    | U           |
| 112        | 0804731F                     | General Skill Training   | 6   | 299                  | 315       | 323       | U           |
| 113        | 0909900F                     | Financing for Expired Account Adjustments                              | 6   | 1,996                |           |           | U           |
| 114        | 0909980F                     | Judgment Fund Reimbursement  | 6   | 20,000               | 36,125    | 100,000   | U           |
| 115        | 1001004F                     | International Activities   | 6   | 3,640                | 3,834     | 3,945     | U           |
|            |                              |  |     | 921,213              | 638,682   | 747,114   |             |
|            |                              | <b>RDT&amp;E Management Support</b>                                    |     |                      |           |           |             |
| 116        | 0605024F                     | Anti-Tamper Technology Executive Agency                                | 7   | 8,474                | 8,780     | 7,858     | U           |
| 117        | 0101113F                     | B-52 Squadrons   | 7   | 52,001               | 28,406    | 25,766    | U           |

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|------------|------------------------------|---|-----|----------------------|---------|-----------|--------|
|            |                              |   |     | FY 2003              | FY 2004 | FY 2005 C |        |
| 118        | 0101120F                     | Advanced Cruise Missile   | 7   | 2,562                | 13,212  | 7,740     | U      |
| 119        | 0101122F                     | Air-Launched Cruise Missile (ALCM)                                      | 7   | 19,400               | 29,466  | 11,837    | U      |
| 120        | 0101313F                     | Strat War Planning System -<br>USSTRATCOM                               | 7   | 1,625                | 1,724   | 23,391    | U      |
| 121        | 0101314F                     | Night First - USSTRATCOM  | 7   |                      |         | 4,987     | U      |
| 122        | 0101815F                     | Advanced Strategic Programs   | 7   | 5,817                | 6,048   | 8,393     | U      |
| 123        | 0102326F                     | Region/Sector Operation Control<br>Center Modernization Program         | 7   | 26,286               | 32,185  | 19,047    | U      |
| 124        | 0203761F                     | Warfighter Rapid Acquisition<br>Process (WRAP) Rapid Transition<br>Fund | 7   | 27,029               |         | 24,935    | U      |
| 125        | 0207028F                     | Joint Expeditionary Force<br>Experiment                                 | 7   | 25,533               | 50,931  |           | U      |
| 126        | 0207131F                     | A-10 Squadrons  | 7   | 10,960               | 29,476  | 22,590    | U      |
| 127        | 0207133F                     | F-16 Squadrons  | 7   | 77,627               | 96,135  | 99,606    | U      |
| 128        | 0207134F                     | F-15E Squadrons   | 7   | 70,749               | 122,436 | 115,246   | U      |
| 129        | 0207136F                     | Manned Destructive Suppression  | 7   | 21,821               | 20,458  | 16,976    | U      |
| 130        | 0207138F                     | F/A-22 Squadrons  | 7   | 65,422               | 313,101 | 354,528   | U      |
| 131        | 0207141F                     | F-117A Squadrons  | 7   | 3,710                | 14,627  | 29,661    | U      |
| 132        | 0207161F                     | Tactical AIM Missiles   | 7   | 2,785                | 372     | 5,558     | U      |
| 133        | 0207163F                     | Advanced Medium Range Air-to-Air<br>Missile (AMRAAM)                    | 7   | 39,334               | 32,154  | 33,266    | U      |
| 134        | 0207224F                     | Combat Rescue and Recovery  | 7   |                      |         | 12,342    | U      |
| 135        | 0207247F                     | AF TENCAP   | 7   | 14,157               | 18,818  | 10,673    | U      |
| 136        | 0207248F                     | Special Evaluation Program  | 7   | 139,200              | 192,582 | 199,040   | U      |
| 137        | 0207253F                     | Compass Call  | 7   | 8,786                | 8,706   | 3,990     | U      |

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|------------|------------------------------|--|-----|----------------------|---------|---------|-------------|
|            |                              |  |     | FY 2003              | FY 2004 | FY 2005 |             |
| 138        | 0207268F                     | Aircraft Engine Component Improvement Program          | 7   | 174,205              | 178,582 | 165,609 | U           |
| 139        | 0207277F                     | CSAF Innovation Program                                | 7   | 1,671                | 2,856   | 1,879   | U           |
| 140        | 0207325F                     | Joint Air-to-Surface Standoff Missile (JASSM)          | 7   | 48,633               | 25,498  | 45,777  | U           |
| 141        | 0207410F                     | Air & Space Operations Center (AOC)                    | 7   | 68,890               | 27,513  | 27,695  | U           |
| 142        | 0207412F                     | Control and Reporting Center (CRC)                     | 7   | 6,099                | 15,868  | 11,634  | U           |
| 143        | 0207417F                     | Airborne Warning and Control System (AWACS)            | 7   | 163,725              | 267,846 | 288,787 | U           |
| 144        | 0207423F                     | Advanced Communications Systems                        | 7   | 27,326               | 12,208  | 20,066  | U           |
| 145        | 0207424F                     | Evaluation and Analysis Program                        | 7   | 227,032              |         |         | U           |
| 146        | 0207433F                     | Advanced Program Technology                            | 7   | 100,048              | 263,671 | 249,391 | U           |
| 147        | 0207438F                     | Theater Battle Management (TBM) C4I                    | 7   | 33,304               | 32,505  | 37,210  | U           |
| 148        | 0207445F                     | Fighter Tactical Data Link                             | 7   | 28,955               | 42,318  | 50,976  | U           |
| 149        | 0207446F                     | Bomber Tactical Data Link                              | 7   |                      | 12,849  | 120,256 | U           |
| 150        | 0207448F                     | C2ISR Tactical Data Link                               | 7   |                      | 26,503  | 25,441  | U           |
| 151        | 0207449F                     | Command and Control (C2) Constellation                 | 7   | 337,764              | 360,051 | 44,035  | U           |
| 152        | 0207581F                     | Joint Surveillance/Target Attack Radar System (JSTARS) | 7   | 62,103               | 57,760  | 89,247  | U           |
| 153        | 0207590F                     | Seek Eagle   | 7   | 16,080               | 19,421  | 23,159  | U           |
| 154        | 0207591F                     | Advanced Program Evaluation                            | 7   | 242,161              | 292,478 | 474,734 | U           |
| 155        | 0207601F                     | USAF Modeling and Simulation                           | 7   | 25,540               | 12,873  | 18,693  | U           |
| 156        | 0207605F                     | Wargaming and Simulation Centers                       | 7   | 7,894                | 7,201   | 6,377   | U           |
| 157        | 0208006F                     | Mission Planning Systems                               | 7   | 19,795               | 51,645  | 136,701 | U           |

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DEPARTMENT OF THE AIR FORCE  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

Date: FEB 2004

APPROPRIATION: 3600F Research, Development, Test &amp; Eval., AF

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2003              | FY 2004 | FY 2005 |             |
| 158        | 0208021F                     | Information Warfare Support                                   | 7   | 8,998                | 11,988  | 7,230   | U           |
| 159        | 0208160F                     | Technical Evaluation System                                   | 7   | 181,514              |         |         | U           |
| 160        | 0208161F                     | Special Evaluation System                                     | 7   | 38,748               |         |         | U           |
| 161        | 0301310F                     | National Air Intelligence Center                              | 7   |                      |         |         |             |
| 162        | 0301314F                     | COBRA BALL  | 7   |                      |         |         |             |
| 163        | 0301315F                     | Missile and Space Technical<br>Collection                     | 7   |                      |         |         |             |
| 164        | 0301324F                     | FOREST GREEN  | 7   |                      |         |         |             |
| 165        | 0301398F                     | Management HQ - GDIP  | 7   |                      |         |         |             |
| 166        | 0302015F                     | E-4B National Airborne Operations<br>Center (NAOC)            | 7   | 47,393               | 44,000  | 11,172  | U           |
| 167        | 0303110F                     | Defense Satellite Communications<br>System (SPACE)            | 7   | 2,009                |         |         | U           |
| 168        | 0303131F                     | Minimum Essential Emergency<br>Communications Network (MEECN) | 7   | 2,253                | 10,595  | 33,183  | U           |
| 169        | 0303140F                     | Information Systems Security<br>Program                       | 7   | 21,659               | 47,718  | 79,625  | U           |
| 170        | 0303141F                     | Global Combat Support System                                  | 7   | 25,739               | 17,239  | 18,637  | U           |
| 171        | 0303150F                     | Global Command and Control System                             | 7   | 3,218                | 3,500   | 3,611   | U           |
| 172        | 0303401F                     | Communications Security (COMSEC)                              | 7   | 4,344                |         |         | U           |
| 173        | 0303601F                     | MILSATCOM Terminals   | 7   | 65,090               | 171,860 | 272,149 | U           |
| 174        | 0304111F                     | Special Activities  | 7   |                      |         |         |             |
| 175        | 0304311F                     | Selected Activities   | 7   | 147,665              | 142,801 |         |             |
| 176        | 0305099F                     | Global Air Traffic Management<br>(GATM)                       | 7   | 6,961                | 6,820   | 7,291   | U           |
| 177        | 0305110F                     | Satellite Control Network (SPACE)                             | 7   | 16,725               | 20,468  | 17,833  | U           |
| 178        | 0305111F                     | Weather Service   | 7   | 14,492               | 16,098  | 16,526  | U           |

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DEPARTMENT OF THE AIR FORCE  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600F Research, Development, Test &amp; Eval, AF

Date: FEB 2004

| Line No | Program Element Number | Item   | Act | Thousands of Dollars |         |         | S E C |
|---------|------------------------|--|-----|----------------------|---------|---------|-------|
|         |                        |  |     | FY 2003              | FY 2004 | FY 2005 |       |
| 179     | 0305114F               | Air Traffic Control, Approach, and Landing System (ATCALS)                       | 7   | 9,141                | 10,421  | 7,371   | U     |
| 180     | 0305116F               | Aerial Targets   | 7   |                      |         | 5,178   | U     |
| 181     | 0305128F               | Security and Investigative Activities  | 7   | 443                  | 20,300  | 484     | U     |
| 182     | 0305142F               | Applied Technology and Integration   | 7   |                      |         |         |       |
| 183     | 0305148F               | Air Force Tactical Measurement and Signature Intelligence (MASINT) Systems/Progr | 7   | 15,259               | 7,436   | 7,905   | U     |
| 184     | 0305159F               | Defense Reconnaissance Support Activities (SPACE)                                | 7   | 41,631               | 95,961  | 219,345 | U     |
| 185     | 0305160F               | Defense Meteorological Satellite Program (SPACE)                                 | 7   | 5,031                | 907     |         | U     |
| 186     | 0305164F               | NAVSTAR Global Positioning System (User Equipment) (SPACE)                       | 7   | 80,500               | 99,449  | 104,114 | U     |
| 187     | 0305165F               | NAVSTAR Global Positioning System (Space and Control Segments)                   | 7   | 284,036              | 144,790 | 148,344 | U     |
| 188     | 0305172F               | Combined Advanced Applications   | 7   |                      |         |         |       |
| 189     | 0305174F               | Space Warfare Center   | 7   |                      | 401     | 411     | U     |
| 190     | 0305182F               | Spacelift Range System (SPACE)   | 7   | 90,781               | 69,908  | 47,253  | U     |
| 191     | 0305191F               | Personnel Security Investigations Program - Air Force                            | 7   |                      |         | 118,787 | U     |
| 192     | 0305193F               | Intelligence Support to Information Operations (IO)                              | 7   |                      |         | 1,097   | U     |
| 193     | 0305202F               | Dragon U-2 (JMIP)  | 7   | 24,101               | 46,599  | 87,745  | U     |
| 194     | 0305205F               | Endurance Unmanned Aerial Vehicles   | 7   | 352,679              | 401,413 |         | U     |
| 195     | 0305206F               | Airborne Reconnaissance Systems  | 7   | 64,380               | 77,930  | 55,464  | U     |
| 196     | 0305207F               | Manned Reconnaissance Systems  | 7   | 8,357                | 15,682  | 13,283  | U     |

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EXHIBIT R-1

APPROPRIATION: 3600F Research, Development, Test &amp; Eval, AF

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2003              | FY 2004 | FY 2005 |             |
| 197        | 0305208F                     | Distributed Common Ground/Surface Systems   | 7   | 30,885               | 27,772  | 21,232  | U           |
| 198        | 0305219F                     | Predator UAV (JMIP)                         | 7   |                      |         | 81,346  | U           |
| 199        | 0305220F                     | Global Hawk UAV (JMIP)                      | 7   |                      |         | 336,159 | U           |
| 200        | 0305887F                     | Intelligence Support to Information Warfare | 7   |                      |         | 963     | U           |
| 201        | 0305906F                     | NCMC - TW/AA System                         | 7   | 14,600               | 57,107  | 64,822  | U           |
| 202        | 0305910F                     | SPACETRACK (SPACE)                          | 7   | 20,289               | 104,694 | 161,838 | U           |
| 203        | 0305911F                     | Defense Support Program (SPACE)             | 7   | 1,935                |         |         | U           |
| 204        | 0305913F                     | NUDET Detection System (SPACE)              | 7   | 20,754               | 35,428  | 35,398  | U           |
| 205        | 0305917F                     | Space Architect                             | 7   |                      | 12,446  | 12,907  | U           |
| 206        | 0308601F                     | Modeling and Simulation Support             | 7   | 1,936                |         |         | U           |
| 207        | 0308699F                     | Shared Early Warning (SEW)                  | 7   | 3,604                | 3,210   | 3,345   | U           |
| 208        | 0401115F                     | C-130 Airlift Squadron                      | 7   | 130,279              | 104,486 | 150,242 | U           |
| 209        | 0401119F                     | C-5 Airlift Squadrons (IF)                  | 7   | 273,750              | 346,541 | 332,982 | U           |
| 210        | 0401130F                     | C-17 Aircraft (IF)                          | 7   | 155,805              | 183,913 | 199,692 | U           |
| 211        | 0401132F                     | C-130J Program                              | 7   | 1,890                | 13,436  | 36,305  | U           |
| 212        | 0401134F                     | Large Aircraft IR Countermeasures (LAIRCM)  | 7   | 51,311               | 45,543  | 73,684  | U           |
| 213        | 0401218F                     | KC-135s                                     | 7   | 1,908                | 3,147   | 1,079   | U           |
| 214        | 0401219F                     | KC-10s                                      | 7   | 20,149               | 2,286   | 18,452  | U           |
| 215        | 0408011F                     | Special Tactics / Combat Control            | 7   |                      |         | 1,067   | U           |
| 216        | 0702207F                     | Depot Maintenance (Non-IF)                  | 7   | 2,209                | 1,394   | 1,431   | U           |
| 217        | 0702806F                     | Acquisition and Management Support          | 7   |                      |         | 1,596   | U           |
| 218        | 0708011F                     | Industrial Preparedness                     | 7   | 45,340               | 57,007  | 38,012  | U           |

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DEPARTMENT OF THE AIR FORCE  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

Date: FEB 2004

APPROPRIATION: 3600F Research, Development, Test &amp; Eval, AF

| Line No                                      | Program Element Number | Item   | Act | FY 2003              | FY 2004    | FY 2005    | S E C |
|--|------------------------|--|-----|----------------------|------------|------------|-------|
|  |                        |  |     | Thousands of Dollars |            |            |       |
| 219  | 0708012F               | Logistics Support Activities   | 7   | 8,718                | 1,381      |            | U     |
| 220  | 0708026F               | Productivity, Reliability, Availability, Maintain. Prog Ofc (PRAMPO) | 7   | 9,154                | 8,924      |            | U     |
| 221  | 0708611F               | Support Systems Development  | 7   | 50,035               | 72,843     | 50,238     | U     |
| 222  | 0708612F               | Computer Resources Support Improvement Program (CRSIP)               | 7   | 2,049                |            |            | U     |
| 223  | 0808716F               | Other Personnel Activities   | 7   |                      |            | 110        | U     |
| 224  | 0901212F               | Service-Wide Support (Not Otherwise Accounted For)                   | 7   | 3,687                | 4,333      |            | U     |
| 225  | 0901218F               | Civilian Compensation Program  | 7   | 14,189               | 7,069      | 7,272      | U     |
| 226  | 0901538F               | Financial Management Information Systems Development                 | 7   | 14,551               | 13,284     | 15,732     | U     |
| Operational Systems Development              |                        |  |     | 10,465,945           | 10,757,771 | 11,356,318 |       |
| Total Research, Development, Test & Eval, AF |                        |  |     | 18,934,575           | 20,293,595 | 21,114,667 |       |

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## FY 2005 RDT&amp;E PROGRAM

## SUMMARY

(\$ IN THOUSANDS)

FEB 2004

Summary Recap of Budget Activities

|   | <u>FY 2003</u>    | <u>FY 2004</u>    | <u>FY 2005</u>    |
|---|-------------------|-------------------|-------------------|
| Basic Research  | 508,190           | 207,088           | 190,088           |
| Applied Research  | 1,813,154         | 1,762,980         | 1,876,306         |
| Advanced Technology Development                         | 2,472,793         | 2,933,712         | 3,047,451         |
| Advanced Component Development & Prototypes             | 5,602,802         | 7,544,878         | 9,429,174         |
| System Development & Demonstration                      | 1,395,367         | 335,261           | 424,870           |
| RDT&E Management Support                                | 1,000,827         | 769,218           | 711,326           |
| Operational Systems Development                         | 5,045,582         | 5,373,561         | 5,060,622         |
| <b>Total Research, Development, Test &amp; Eval, DW</b> | <b>17,838,715</b> | <b>18,926,698</b> | <b>20,739,837</b> |

Summary Recap of FYDP Programs

|   |                   |                   |                   |
|---|-------------------|-------------------|-------------------|
| General Purpose Forces                                  | 53,205            | 51,699            | 48,314            |
| Intelligence and Communications                         | 4,528,123         | 4,797,538         | 4,623,088         |
| Research and Development                                | 12,685,387        | 13,259,016        | 15,369,544        |
| Central Supply and Maintenance                          | 48,923            | 81,272            | 22,394            |
| Administration and Associated Activities                | 61,167            | 141,944           | 187,400           |
| Support of Other Nations                                |                   | 24,363            | 30,399            |
| Special Operations Forces                               | 461,910           | 570,866           | 458,698           |
| <b>Total Research, Development, Test &amp; Eval, DW</b> | <b>17,838,715</b> | <b>18,926,698</b> | <b>20,739,837</b> |

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## FY 2005 RDT&amp;E PROGRAM

## SUMMARY

(\$ IN THOUSANDS)

FEB 2004

Summary Recap of Defensewide

|   | <u>FY 2003</u>    | <u>FY 2004</u>    | <u>FY 2005</u>    |
|---|-------------------|-------------------|-------------------|
| Special Operations Command                              | 484,692           | 594,630           | 481,817           |
| Defense Contract Management Agency                      | 14,340            | 15,638            | 17,373            |
| Chemical and Biological Defense Program                 | 638,013           | 705,946           | 559,901           |
| National Geospatial Intelligence Agency                 |                   |                   |                   |
| Defense Threat Reduction Agency                         | 498,432           | 398,220           | 442,292           |
| Counter Intelligence Field Activity                     |                   |                   |                   |
| Missile Defense Agency                                  | 6,687,013         | 7,625,487         | 9,146,672         |
| Office of Secretary Of Defense                          | 2,340,094         | 1,945,386         | 2,332,926         |
| Defense Adv Research Projects Agcy                      | 2,654,979         | 2,831,456         | 3,090,279         |
| National Security Agency                                |                   |                   |                   |
| The Joint Staff   | 109,284           | 126,715           | 120,247           |
| Defense Information Systems Agency                      | 263,735           | 311,991           | 318,508           |
| Defense Intelligence Agency                             |                   |                   |                   |
| Defense Contract Audit Agency                           | 537               |                   |                   |
| Defense Logistics Agency                                | 191,875           | 215,463           | 59,560            |
| DoD Human Resources Activity                            | 27,896            | 28,897            | 76,761            |
| Defense Security Cooperation Agency                     | 2,739             | 5,840             | 6,995             |
| Defense Security Service                                | 463               |                   |                   |
| <b>Total Research, Development, Test &amp; Eval, DW</b> | <b>17,838,715</b> | <b>18,926,698</b> | <b>20,739,837</b> |

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FY 2005 RDT&E PROGRAM**

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|----------------|----------------|-------------|
|            |                              |  |     | FY 2003              | FY 2004        | FY 2005        |             |
| 1          | 0601101D8Z                   | In-House Laboratory Independent Research                       | 1   | 2,044                |                |                | U           |
| 2          | 0601101E                     | Defense Research Sciences                                      | 1   | 171,383              | 139,434        | 143,729        | U           |
| 3          | 0601103D8Z                   | University Research Initiatives                                | 1   | 232,653              |                |                | U           |
| 4          | 0601105D8Z                   | Force Health Protection  | 1   | 14,156               |                |                | U           |
| 5          | 0601108D8Z                   | High Energy Laser Research Initiatives                         | 1   | 11,355               |                |                | U           |
| 6          | 0601111D8Z                   | Government/Industry Cosponsorship of University Research       | 1   | 8,240                | 6,696          |                | U           |
| 7          | 0601114D8Z                   | Defense Experimental Program to Stimulate Competitive Research | 1   | 15,197               | 9,578          | 9,590          | U           |
| 8          | 0601384BP                    | Chemical and Biological Defense Program                        | 1   | 53,162               | 51,380         | 36,769         | U           |
|            |                              | <b>Basic Research</b>  |     | <b>508,190</b>       | <b>207,088</b> | <b>190,088</b> |             |
| 9          | 0602227D8Z                   | Medical Free Electron Laser                                    | 2   | 11,609               | 18,518         | 9,668          | U           |
| 10         | 0602228D8Z                   | Historically Black Colleges and Universities (HBCU) Science    | 2   | 25,306               | 20,651         | 14,192         | U           |
| 11         | 0602234D8Z                   | Lincoln Laboratory Research Program                            | 2   | 26,056               | 26,830         | 25,441         | U           |
| 12         | 0602301E                     | Computing Systems and Communications Technology                | 2   | 390,607              | 334,696        | 342,614        | U           |
| 13         | 0602302E                     | Embedded Software and Pervasive Computing                      | 2   | 54,870               | 13,250         |                | U           |
| 14         | 0602383E                     | Biological Warfare Defense                                     | 2   | 157,861              | 149,105        | 147,533        | U           |
| 15         | 0602384BP                    | Chemical and Biological Defense Program                        | 2   | 170,183              | 151,372        | 104,385        | U           |
| 16         | 0602702E                     | Tactical Technology  | 2   | 168,826              | 247,405        | 339,175        | U           |
| 17         | 0602712E                     | Materials and Electronics Technology                           | 2   | 414,437              | 465,450        | 502,044        | U           |

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FY 2005 RDT&E PROGRAM

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APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|------------------|------------------|-------------|
|            |                              |  |     | FY 2003              | FY 2004          | FY 2005          |             |
| 18         | 0602716BR                    | WMD Defeat Technology  | 2   | 228,827              | 184,109          | 249,786          | U           |
| 19         | 0602717BR                    | WMD Defense Technologies   | 2   | 115,681              | 115,497          | 116,113          | U           |
| 20         | 0602787D8Z                   | Medical Technology   | 2   | 6,100                | 11,641           | 10,084           | U           |
| 21         | 0602890D8Z                   | High Energy Laser Research   | 2   | 42,791               |                  |                  | U           |
| 22         | 1160401BB                    | Special Operations Technology Development  | 2   |                      | 19,274           | 13,109           | U           |
| 23         | 1160407BB                    | SOF Medical Technology Development   | 2   |                      | 5,182            | 2,162            | U           |
|            |                              | <b>Applied Research</b>  |     | <b>1,813,154</b>     | <b>1,762,980</b> | <b>1,876,306</b> |             |
| 24         | 0603002D8Z                   | Medical Advanced Technology  | 3   |                      | 5,941            | 2,063            | U           |
| 25         | 0603104D8Z                   | Explosives Demilitarization Technology   | 3   | 17,494               |                  |                  | U           |
| 26         | 0603121D8Z                   | SO/LIC Advanced Development  | 3   | 18,495               | 33,605           | 32,682           | U           |
| 27         | 0603122D8Z                   | Combating Terrorism Technology Support   | 3   | 114,374              | 97,291           | 46,719           | U           |
| 28         | 0603160BR                    | Counterproliferation Initiatives - Proliferation Prevention and Defeat           | 3   | 105,164              | 90,338           | 74,456           | U           |
| 29         | 0603175C                     | Ballistic Missile Defense Technology   | 3   | 151,217              | 225,268          | 204,320          | U           |
| 30         | 0603225D8Z                   | Joint DoD-DoE Munitions Technology Development                                   | 3   | 18,124               | 24,648           | 23,319           | U           |
| 31         | 0603232D8Z                   | Automatic Target Recognition   | 3   | 4,403                |                  |                  | U           |
| 32         | 0603285E                     | Advanced Aerospace Systems   | 3   | 242,095              | 315,941          | 361,067          | U           |
| 33         | 0603384BP                    | Chemical and Biological Defense Program - Advanced Development                   | 3   | 105,700              | 156,496          | 117,343          | U           |
| 34         | 0603400D8Z                   | Joint Unmanned Combat Air Systems (J-UCAS) Advanced Technology Development and R | 3   |                      |                  | 284,617          | U           |
| 35         | 0603704D8Z                   | Special Technical Support  | 3   | 12,878               | 13,495           |                  | U           |

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FY 2005 RDT&E PROGRAM**

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|---------|---------|-------------|
|            |                              |  |     | FY 2003              | FY 2004 | FY 2005 |             |
| 36         | 0603711BR                    | Arms Control Technology                              | 3   | 42,023               | 6,438   |         | U           |
| 37         | 0603712S                     | Generic Logistics R&D Technology Demonstrations      | 3   | 130,577              | 123,111 | 27,542  | U           |
| 38         | 0603716D8Z                   | Strategic Environmental Research Program             | 3   | 50,938               | 49,883  | 56,936  | U           |
| 39         | 0603727D8Z                   | Joint Warfighting Program                            | 3   | 8,850                | 10,284  | 9,936   | U           |
| 40         | 0603739E                     | Advanced Electronics Technologies                    | 3   | 158,847              | 186,748 | 218,151 | U           |
| 41         | 0603750D8Z                   | Advanced Concept Technology Demonstrations           | 3   | 195,136              | 218,167 | 213,901 | U           |
| 42         | 0603755D8Z                   | High Performance Computing Modernization Program     | 3   | 185,221              | 202,492 | 186,666 | U           |
| 43         | 0603760E                     | Command, Control and Communications Systems          | 3   | 115,654              | 193,562 | 225,784 | U           |
| 44         | 0603762E                     | Sensor and Guidance Technology                       | 3   | 216,052              | 336,658 | 337,117 | U           |
| 45         | 0603763E                     | Marine Technology                                    | 3   | 26,164               | 13,751  |         | U           |
| 46         | 0603764E                     | Land Warfare Technology                              | 3   | 164,634              | 81,513  | 63,121  | U           |
| 47         | 0603765E                     | Classified DARPA Programs                            | 3   | 261,851              | 218,192 | 238,131 | U           |
| 48         | 0603766E                     | Network-Centric Warfare Technology                   | 3   |                      | 91,226  | 125,124 | U           |
| 49         | 0603769SE                    | Distributed Learning Advanced Technology Development | 3   | 15,230               | 13,611  | 13,756  | U           |
| 50         | 0603781D8Z                   | Software Engineering Institute                       | 3   | 21,535               | 22,324  | 21,599  | U           |
| 51         | 0603805S                     | Dual Use Application Programs                        | 3   | 5,750                | 3,710   |         | U           |
| 52         | 0603826D8Z                   | Quick Reaction Special Projects                      | 3   | 24,076               | 46,566  | 64,389  | U           |
| 53         | 0603832D8Z                   | Joint Wargaming Simulation Management Office         | 3   | 45,835               | 41,735  | 46,017  | U           |
| 54         | 0603924D8Z                   | High Energy Laser Advanced Technology Program        | 3   | 12,793               |         |         | U           |
| 55         | 0603942D8Z                   | Technology Link                                      | 3   |                      | 3,547   | 1,934   | U           |

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FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|------------------|------------------|-------------|
|            |                              |   |     | FY 2003              | FY 2004          | FY 2005          |             |
| 56         | 0605160D8Z                   | Counterproliferation Support                              | 3   | 1,683                | 1,851            | 1,958            | U           |
| 57         | 1160402BB                    | Special Operations Advanced<br>Technology Development     | 3   |                      | 105,320          | 48,803           | U           |
|            |                              | <b>Advanced Technology Development (ATD)</b>              |     | <b>2,472,793</b>     | <b>2,933,712</b> | <b>3,047,451</b> |             |
| 58         | 0603228D8Z                   | Physical Security Equipment                               | 4   | 46,872               | 1,183            |                  | U           |
| 59         | 0603709D8Z                   | Joint Robotics Program                                    | 4   | 19,235               | 15,784           | 11,771           | U           |
| 60         | 0603714D8Z                   | Advanced Sensor Applications<br>Program                   | 4   | 16,914               | 32,983           | 17,581           | U           |
| 61         | 0603736D8Z                   | CALS Initiative   | 4   | 7,362                |                  |                  | U           |
| 62         | 0603851D8Z                   | Environmental Security Technical<br>Certification Program | 4   | 20,091               | 35,191           | 32,546           | U           |
| 63         | 0603869C                     | Meads Concepts  | 4   | 101,754              |                  |                  | U           |
| 64         | 0603879C                     | Advanced Concepts, Evaluations<br>And Systems             | 4   |                      | 149,993          | 256,159          | U           |
| 65         | 0603880C                     | Ballistic Missile Defense System<br>Segment               | 4   | 1,026,566            |                  |                  | U           |
| 66         | 0603881C                     | Ballistic Missile Defense<br>Terminal Defense Segment     | 4   | 134,093              | 874,527          | 937,748          | U           |
| 67         | 0603882C                     | Ballistic Missile Defense<br>Midcourse Defense Segment    | 4   | 3,056,035            | 3,724,066        | 4,384,775        | U           |
| 68         | 0603883C                     | Ballistic Missile Defense Boost<br>Defense Segment        | 4   | 705,643              | 617,270          | 492,614          | U           |
| 69         | 0603884BP                    | Chemical and Biological Defense<br>Program                | 4   | 91,567               | 131,433          | 104,195          | U           |
| 70         | 0603884C                     | Ballistic Missile Defense Sensors                         | 4   | 327,013              | 425,421          | 591,957          | U           |
| 71         | 0603886C                     | Ballistic Missile Defense System<br>Interceptor           | 4   |                      | 117,719          | 511,262          | U           |
| 72         | 0603888C                     | Ballistic Missile Defense Test &<br>Targets               | 4   |                      | 633,782          | 713,658          | U           |

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FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No   | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|--|------------------------------|--|-----|----------------------|------------------|------------------|-------------|
|  |                              |  |     | FY 2003              | FY 2004          | FY 2005          |             |
| 73   | 0603889C                     | Ballistic Missile Defense Products   | 4   | 305,309              | 418,608          | U                |             |
| 74   | 0603890C                     | Ballistic Missile Defense Systems<br>Core  | 4   | 445,356              | 479,764          | U                |             |
| 75   | 0603910D8Z                   | Strategic Capability Modernization   | 4   | 19,461               |                  | U                |             |
| 76   | 0603920D8Z                   | Humanitarian Demining  | 4   | 12,627               | 13,108           | U                |             |
| 77   | 0603923D8Z                   | Coalition Warfare  | 4   | 6,545                | 5,822            | U                |             |
| 78   | 0604400D8Z                   | Joint Unmanned Combat Air Systems<br>(J-UCAS) Advanced Component and<br>Prototype Deve | 4   |                      | 422,873          | U                |             |
| 79   | 0604722D8Z                   | Joint Service Education and<br>Training Systems Development                            | 4   | 987                  |                  | U                |             |
| 80   | 0605017D8Z                   | Reduction Of Total Ownership Cost  | 4   |                      | 27,351           | U                |             |
| 81   | 0303191D8Z                   | Joint Electromagnetic Technology<br>(JET) Program                                      | 4   | 10,063               | 14,944           | U                |             |
| <b>Advanced Component Development &amp; Prototypes</b> |                              |  |     | <b>5,602,802</b>     | <b>7,544,878</b> | <b>9,429,174</b> |             |
| 82   | 0604384BP                    | Chemical and Biological Defense<br>Program   | 5   | 168,723              | 176,337          | U                |             |
| 83   | 0604618D8Z                   | MANPADS Defense Program  | 5   |                      | 2,958            | U                |             |
| 84   | 0604709D8Z                   | Joint Robotics Program   | 5   | 27,326               | 21,381           | U                |             |
| 85   | 0604764K                     | Advanced IT Services Joint<br>Program Office (AITS-JPO)                                | 5   | 25,480               | 16,673           | U                |             |
| 86   | 0604771D8Z                   | Joint Tactical Information<br>Distribution System (JTIDS)                              | 5   | 10,122               | 10,478           | U                |             |
| 87   | 0604861C                     | Theater High-Altitude Area<br>Defense System - TMD                                     | 5   | 864,216              |                  | U                |             |
| 88   | 0604865C                     | Patriot PAC-3 Theater Missile<br>Defense Acquisition                                   | 5   | 138,922              |                  | U                |             |
| 89   | 0605013BL                    | Information Technology Development   | 5   | 3,858                | 10,498           | U                |             |
| 90   | 0605013D8Z                   | Prototype Accounting Systems   | 5   | 8,889                |                  | U                |             |

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FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No  | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|---|------------------------------|--|-----|----------------------|----------------|----------------|-------------|
|   |                              |  |     | FY 2003              | FY 2004        | FY 2005        |             |
| 91  | 0605014SE                    | Information Technology Development                                   | 5   |                      |                | 52,407         | U           |
| 92  | 0605015BL                    | Information Technology Development-Standard Procurement System (SPS) | 5   | 10,482               | 5,140          | 6,690          | U           |
| 93  | 0605016D8Z                   | Financial Management System Improvements                             | 5   | 67,191               | 45,098         | 94,767         | U           |
| 94  | 0303129K                     | Defense Message System   | 5   | 11,279               | 9,662          | 6,623          | U           |
| 95  | 0303140K                     | Information Systems Security Program                                 | 5   | 18,005               | 6,688          | 2,493          | U           |
| 96  | 0303141K                     | Global Combat Support System   | 5   | 16,709               | 16,396         | 17,867         | U           |
| 97  | 0303158K                     | Joint Command and Control Program (JC2)                              | 5   |                      |                | 3,000          | U           |
| 98  | 0305840K                     | Electronic Commerce  | 5   | 24,165               | 7,137          | 3,466          | U           |
| 99  | 0305840S                     | Electronic Commerce  | 5   |                      | 2,335          | 2,345          | U           |
| 100   | 0901200D8Z                   | BMMP Domain Management and Systems Integration                       | 5   |                      | 4,480          | 7,472          | U           |
| <b>System Development and Demonstration (SDP)</b> |                              |  |     | <b>1,395,367</b>     | <b>335,261</b> | <b>424,870</b> |             |
| 101   | 0603704D8Z                   | Special Technical Support  | 6   |                      |                | 19,274         | U           |
| 102   | 0603757D8Z                   | Training Transformation (T2)   | 6   |                      | 2,909          |                | U           |
| 103   | 0603835D8Z                   | Transformation Initiatives Program                                   | 6   |                      |                | 9,977          | U           |
| 104   | 0603858D8Z                   | Unexploded Ordnance Detection and Clearance                          | 6   | 1,109                |                |                | U           |
| 105   | 0604774D8Z                   | Defense Readiness Reporting System (DRRS)                            | 6   |                      | 15,336         | 19,691         | U           |
| 106   | 0604875D8Z                   | Joint Systems Architecture Development                               | 6   |                      |                | 4,989          | U           |
| 107   | 0604943D8Z                   | Thermal Vicar  | 6   | 6,949                | 7,053          | 7,263          | U           |
| 108   | 0605104D8Z                   | Technical Studies, Support and Analysis                              | 6   | 29,465               | 29,762         | 30,618         | U           |

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FY 2005 ROT&E PROGRAM

EXHIBIT R-1

Date: FEB 2004

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|---------|---------|-------------|
|            |                              |  |     | FY 2003              | FY 2004 | FY 2005 |             |
| 109        | 0605110BR                    | Critical Technology Support                                    | 6   | 1,823                | 1,838   | 1,937   | U           |
| 110        | 0605114D8Z                   | BLACK LIGHT  | 6   | 14,547               | 19,388  | 21,535  | U           |
| 111        | 0605116D8Z                   | General Support to C3I   | 6   | 21,853               | 25,529  |         | U           |
| 112        | 0605117D8Z                   | Foreign Material Acquisition and<br>Exploitation               | 6   | 23,422               | 33,421  | 35,572  | U           |
| 113        | 0605123D8Z                   | Interagency Export License<br>Automation                       | 6   | 862                  | 7,718   | 5,882   | U           |
| 114        | 0605124D8Z                   | Defense Travel System  | 6   | 30,353               | 31,342  | 28,508  | U           |
| 115        | 0605126J                     | Joint Theater Air and Missile<br>Defense Organization          | 6   | 74,905               | 85,078  | 86,409  | U           |
| 116        | 0605128D8Z                   | Classified Program USD(P)                                      | 6   | 186,192              | 145,835 |         | U           |
| 117        | 0605130D8Z                   | Foreign Comparative Testing                                    | 6   | 29,319               | 36,464  | 35,633  | U           |
| 118        | 0605170D8Z                   | Support to Networks and<br>Information Integration             | 6   |                      |         | 11,490  | U           |
| 119        | 0605200D8Z                   | General Support to USD<br>(Intelligence)                       | 6   |                      |         | 4,830   | U           |
| 120        | 0605384BP                    | Chemical and Biological Defense<br>Program                     | 6   | 48,678               | 38,928  | 42,652  | U           |
| 121        | 0605502BR                    | Small Business Innovation Research                             | 6   | 4,914                |         |         | U           |
| 122        | 0605502C                     | Small Business Innovative<br>Research - MDA                    | 6   | 138,791              |         |         | U           |
| 123        | 0605502D8Z                   | Small Business Innovative Research                             | 6   | 37,539               |         |         | U           |
| 124        | 0605502E                     | Small Business Innovative Research                             | 6   | 64,848               |         |         | U           |
| 125        | 0605710D8Z                   | Classified Programs - C3I                                      | 6   | 75,066               | 41,541  |         | U           |
| 126        | 0605790D8Z                   | Small Business Innovation<br>Research/Challenge Administration | 6   | 1,965                | 1,997   | 1,999   | U           |
| 127        | 0605798S                     | Defense Technology Analysis                                    | 6   | 6,625                | 5,035   | 7,279   | U           |
| 128        | 0605799D8Z                   | Force Transformation Directorate                               | 6   | 9,416                | 19,388  | 19,591  | U           |

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FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|----------------|----------------|-------------|
|            |                              |   |     | FY 2003              | FY 2004        | FY 2005        |             |
| 129        | 0605801K                     | Defense Technical Information Services (DTIC)                     | 6   | 42,963               | 43,494         | 45,203         | U           |
| 130        | 0605803SE                    | R&D in Support of DoD Enlistment, Testing and Evaluation          | 6   | 12,666               | 15,286         | 10,598         | U           |
| 131        | 0605804D8Z                   | Development Test and Evaluation                                   | 6   | 46,944               | 8,808          | 8,882          | U           |
| 132        | 0605898E                     | Management HQ - R&D   | 6   | 44,850               | 44,525         | 46,689         | U           |
| 133        | 0303169D8Z                   | Information Technology Rapid Acquisition                          | 6   |                      |                | 19,958         | U           |
| 134        | 0305193D8Z                   | Intelligence Support to Information Operations (IO)               | 6   |                      |                | 12,878         | U           |
| 135        | 0305193G                     | Intelligence Support to Information Operations (IO)               | 6   |                      |                |                |             |
| 136        | 0901585C                     | Pentagon Reservation  | 6   | 7,432                | 14,327         | 13,884         | U           |
| 137        | 0901598C                     | Management HQ - MDA   | 6   | 35,331               | 92,449         | 141,923        | U           |
| 138        | 0901598D8W                   | IT Software Dev Initiatives                                       | 6   |                      | 1,767          | 1,700          | U           |
| 139        | 0909999E                     | Financing for Cancelled Account Adjustments                       | 6   | 2,000                |                |                | U           |
|            |                              | <b>RDT&amp;E Management Support</b>                               |     | <b>1,000,827</b>     | <b>769,218</b> | <b>711,326</b> |             |
| 140        | 0604805D8Z                   | Commercial Operations and Support Savings Initiative              | 7   | 14,499               |                |                | U           |
| 141        | 0605127T                     | Partnership for Peace (PFP) Information Management System         | 7   | 2,739                | 5,840          | 6,995          | U           |
| 142        | 0607384BP                    | Chemical and Biological Defense (Operational Systems Development) | 7   |                      |                | 2,178          | U           |
| 143        | 0208043J                     | Classified Programs   | 7   |                      | 1,448          | 1,663          | U           |
| 144        | 0208045K                     | C4I Interoperability  | 7   | 44,696               | 43,122         | 41,074         | U           |
| 145        | 0208052J                     | Joint Analytical Model Improvement Program                        | 7   | 8,509                | 7,129          | 5,577          | U           |
| 146        | 0300205R                     | Information Technology Systems                                    | 7   | 537                  |                |                | U           |

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EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>No | Item   | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|--------------------------|--|-----|----------------------|---------|---------|-------------|
|            |                          |  |     | FY 2003              | FY 2004 | FY 2005 |             |
| 147        | 0301011G                 | Cryptologic Activities                                     | 7   |                      |         |         |             |
| 148        | 0301301L                 | General Defense Intelligence Program                       | 7   |                      |         |         |             |
| 149        | 0301318BB                | HUMINT (Controlled)  | 7   |                      |         |         |             |
| 150        | 0301398L                 | Management HQ - GDIP                                       | 7   |                      |         |         |             |
| 151        | 0301555BB                | CLASSIFIED PROGRAMS  | 7   |                      |         |         |             |
| 152        | 0301556BB                | SPECIAL PROGRAM  | 7   |                      |         |         |             |
| 153        | 0302016K                 | National Military Command System-Wide Support              | 7   | 1,016                | 1,116   | 1,240   | U           |
| 154        | 0302019K                 | Defense Info Infrastructure Engineering and Integration    | 7   | 6,802                | 2,423   | 2,517   | U           |
| 155        | 0303126K                 | Long-Haul Communications - DCS                             | 7   | 1,602                | 1,380   | 11,401  | U           |
| 156        | 0303127K                 | Support of the National Communications System              | 7   | 4,275                |         |         | U           |
| 157        | 0303131K                 | Minimum Essential Emergency Communications Network (MEECN) | 7   | 7,641                | 7,089   | 7,261   | U           |
| 158        | 0303140D8Z               | Information Systems Security Program                       | 7   |                      | 14,576  | 11,135  | U           |
| 159        | 0303140G                 | Information Systems Security Program                       | 7   | 473,128              | 477,791 | 477,846 | U           |
| 160        | 0303149J                 | C4I for the Warrior  | 7   | 9,466                | 4,139   | 4,177   | U           |
| 161        | 0303149K                 | C4I for the Warrior  | 7   | 19,103               | 36,489  | 24,712  | U           |
| 162        | 0303150K                 | Global Command and Control System                          | 7   | 17,421               | 50,400  | 43,693  | U           |
| 163        | 0303153K                 | Joint Spectrum Center                                      | 7   | 15,667               | 16,565  | 18,941  | U           |
| 164        | 0303165K                 | Defense Collaboration Tool Suite (DCTS)                    | 7   |                      | 12,689  | 8,503   | U           |
| 165        | 0303170K                 | Net-Centric Enterprise Services (NCES)                     | 7   |                      | 30,364  | 52,059  | U           |



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FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|---------|---------|-------------|
|            |                              |  |     | FY 2003              | FY 2004 | FY 2005 |             |
| 166        | 0303610K                     | Teleport Program                                       | 7   | 6,911                | 10,304  | 10,272  | U           |
| 167        | 0304210BB                    | Special Applications for<br>Contingencies              | 7   | 22,782               | 23,764  | 20,758  | U           |
| 168        | 0304345BQ                    | National Imagery and Mapping<br>Program                | 7   |                      |         |         |             |
| 169        | 0305102BQ                    | Defense Imagery and Mapping<br>Program                 | 7   |                      |         |         |             |
| 170        | 0305125D8Z                   | Critical Infrastructure<br>Protection (CIP)            | 7   |                      | 2,023   | 28,021  | U           |
| 171        | 0305127BZ                    | Foreign Counterintelligence<br>Activities              | 7   |                      |         |         |             |
| 172        | 0305127V                     | Foreign Counterintelligence<br>Activities              | 7   | 463                  |         |         | U           |
| 173        | 0305146BZ                    | Defense Joint Counterintelligence<br>Program (JMIP)    | 7   | 23,035               | 105,462 | 32,939  | U           |
| 174        | 0305146D8Z                   | Defense Joint Counterintelligence<br>Program (JMIP)    | 7   | 66,500               | 30,312  |         | U           |
| 175        | 0305183L                     | Defense Human Intelligence<br>(HUMINT) Program (DHIP)  | 7   |                      |         |         |             |
| 176        | 0305190D8Z                   | C3I Intelligence Programs                              | 7   | 106,672              | 130,178 |         | U           |
| 177        | 0305191D8Z                   | Technology Development                                 | 7   | 225,789              | 245,536 |         | U           |
| 178        | 0305193G                     | Intelligence Support to<br>Information Operations (IO) | 7   |                      |         |         |             |
| 179        | 0305193L                     | Intelligence Support to<br>Information Operations (IO) | 7   |                      |         |         |             |
| 180        | 0305199D8Z                   | Net Centricity   | 7   |                      |         | 214,222 | U           |
| 181        | 0305202G                     | Dragon U-2 (JMIP)                                      | 7   |                      |         |         |             |
| 182        | 0305206G                     | Airborne Reconnaissance Systems                        | 7   |                      |         |         |             |
| 183        | 0305207G                     | Manned Reconnaissance Systems                          | 7   |                      |         |         |             |

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FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2003              | FY 2004 | FY 2005 |             |
| 184        | 0305208BQ                    | Distributed Common Ground/Surface Systems                             | 7   |                      |         |         |             |
| 185        | 0305208G                     | Distributed Common Ground/Surface Systems                             | 7   |                      |         |         |             |
| 186        | 0305208L                     | Distributed Common Ground/Surface Systems                             | 7   |                      |         |         |             |
| 187        | 0305883L                     | Hard and Deeply Buried Target (HDBT) Intel Support                    | 7   |                      |         |         |             |
| 188        | 0305884L                     | Intelligence Planning and Review Activities                           | 7   |                      |         |         |             |
| 189        | 0305885G                     | Tactical Cryptologic Activities                                       | 7   |                      |         |         |             |
| 190        | 0305889G                     | Counterdrug Intelligence Support                                      | 7   |                      |         |         |             |
| 191        | 0305917D8Z                   | National Security Space Architect (NSSA)                              | 7   | 10,632               |         |         | U           |
| 192        | 0708011S                     | Industrial Preparedness   | 7   | 20,741               | 45,871  | 11,005  | U           |
| 193        | 0708012S                     | Logistics Support Activities  | 7   | 28,182               | 35,401  | 11,389  | U           |
| 194        | 0902298J                     | Management Headquarters (JCS)   | 7   | 16,404               | 28,921  | 22,421  | U           |
| 195        | 1001018D8Z                   | NATO Joint STARS  | 7   |                      | 24,363  | 30,399  | U           |
| 196        | 1160279BB                    | Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog | 7   | 11,546               | 13,498  |         | U           |
| 197        | 1160401BB                    | Special Operations Technology Development                             | 7   | 17,914               |         |         | U           |
| 198        | 1160402BB                    | Special Operations Advanced Technology Development                    | 7   | 80,719               |         |         | U           |
| 199        | 1160404BB                    | Special Operations Tactical Systems Development                       | 7   | 254,842              | 298,825 | 311,966 | U           |
| 200        | 1160405BB                    | Special Operations Intelligence Systems Development                   | 7   | 6,670                | 47,084  | 25,015  | U           |
| 201        | 1160407BB                    | SOF Medical Technology Development                                    | 7   | 3,317                |         |         | U           |

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FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |            |            | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|------------|------------|-------------|
|            |                              |  |     | FY 2003              | FY 2004    | FY 2005    | U           |
| 202        | 1160408BB                    | SOF Operational Enhancements                 | 7   | 86,902               | 81,683     | 57,643     |             |
|            |                              | Operational Systems Development              |     | 5,045,582            | 5,373,561  | 5,060,622  |             |
|            |                              | Total Research, Development, Test & Eval, DW |     | 17,838,715           | 18,926,698 | 20,739,837 |             |

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FY 2005 RDT&E PROGRAM

SUMMARY

(\$ IN THOUSANDS)

FEB 2004

Summary Recap of Budget Activities

Advanced Technology Development

RDT&E Management Support

Total Operational Test & Eval, Defense

FY 2003

8,571

231,008

239,579

FY 2004

12,804

289,276

302,080

FY 2005

16,295

288,840

305,135

Summary Recap of FYDP Programs

Research and Development

Total Operational Test & Eval, Defense

239,579

302,080

305,135

302,080

305,135

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FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0460D Operational Test &amp; Eval, Defense

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                |                | S<br>E |
|------------|------------------------------|---|-----|----------------------|----------------|----------------|--------|
|            |                              |   |     | FY 2003              | FY 2004        | FY 2005        | C      |
| 1          | 0603941D8Z                   | Test & Evaluation Science &<br>Technology                     | 3   | 8,571                | 12,804         | 16,295         | U      |
|            |                              | <b>Advanced Technology Development</b>                        |     | <b>8,571</b>         | <b>12,804</b>  | <b>16,295</b>  |        |
| 2          | 0604940D8Z                   | Central Test and Evaluation<br>Investment Development (CTEIP) | 6   | 124,319              | 136,168        | 123,562        | U      |
| 3          | 0605118D8Z                   | Operational Test and Evaluation                               | 6   | 27,472               | 37,006         | 42,390         | U      |
| 4          | 0605131D8Z                   | Live Fire Testing   | 6   | 15,791               | 11,721         | 10,209         | U      |
| 5          | 0605804D8Z                   | Development Test and Evaluation                               | 6   | 63,426               | 104,381        | 112,679        | U      |
|            |                              | <b>RDT&amp;E Management Support</b>                           |     | <b>231,008</b>       | <b>289,276</b> | <b>288,840</b> |        |
|            |                              | <b>Total Operational Test &amp; Eval, Defense</b>             |     | <b>239,579</b>       | <b>302,080</b> | <b>305,135</b> |        |

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Special Operations Command  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line No              | Program Element Number | Item  | Act | FY 2003        | FY 2004        | FY 2005 C      | S E C |
|----------------------|------------------------|---|-----|----------------|----------------|----------------|-------|
| Thousands of Dollars |                        |   |     |                |                |                |       |
| 22                   | 1160401BB              | Special Operations Technology Development                             | 2   | 19,274         | 13,109         | U              |       |
| 23                   | 1160407BB              | SOF Medical Technology Development                                    | 2   | 5,182          | 2,162          | U              |       |
|                      |                        | <b>Applied Research</b>   |     | <b>24,456</b>  | <b>15,271</b>  |                |       |
| 57                   | 1160402BB              | Special Operations Advanced Technology Development                    | 3   | 105,320        | 48,803         | U              |       |
|                      |                        | <b>Advanced Technology Development (ATD)</b>                          |     | <b>105,320</b> | <b>48,803</b>  |                |       |
| 149                  | 0301318BB              | HUMINT (Controlled)   | 7   |                |                |                |       |
| 151                  | 0301555BB              | CLASSIFIED PROGRAMS   | 7   |                |                |                |       |
| 152                  | 0301556BB              | SPECIAL PROGRAM   | 7   |                |                |                |       |
| 167                  | 0304210BB              | Special Applications for Contingencies                                | 7   | 22,782         | 23,764         | 20,758         | U     |
|                      |                        | <b>Operational Systems Development</b>                                |     | <b>22,782</b>  | <b>23,764</b>  | <b>23,119</b>  |       |
| 196                  | 1160279BB              | Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog | 7   | 11,546         | 13,498         | U              |       |
| 197                  | 1160401BB              | Special Operations Technology Development                             | 7   | 17,914         |                | U              |       |
| 198                  | 1160402BB              | Special Operations Advanced Technology Development                    | 7   | 80,719         |                | U              |       |
| 199                  | 1160404BB              | Special Operations Tactical Systems Development                       | 7   | 254,842        | 298,825        | 311,966        | U     |
| 200                  | 1160405BB              | Special Operations Intelligence Systems Development                   | 7   | 6,670          | 47,084         | 25,015         | U     |
| 201                  | 1160407BB              | SOF Medical Technology Development                                    | 7   | 3,317          |                | U              |       |
| 202                  | 1160408BB              | SOF Operational Enhancements  | 7   | 86,902         | 81,683         | 57,643         | U     |
|                      |                        | <b>Operational Systems Development</b>                                |     | <b>461,910</b> | <b>441,090</b> | <b>394,624</b> |       |
|                      |                        | <b>Total Special Operations Command</b>                               |     | <b>484,692</b> | <b>594,630</b> | <b>481,817</b> |       |

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## UNCLASSIFIED

Defense Contract Management Agency  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No                                 | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|--|------------------------------|--|-----|----------------------|---------|---------|-------------|
|  |                              |  |     | FY 2003              | FY 2004 | FY 2005 |             |
| 89   | 0605013BL                    | Information Technology Development   | 5   | 3,858                | 10,498  | 10,683  | U           |
| 92   | 0605015BL                    | Information Technology<br>Development-Standard Procurement<br>System (SPS) | 5   | 10,482               | 5,140   | 6,690   | U           |
| System Development and Demonstration (SDD) |                              |  |     | 14,340               | 15,638  | 17,373  |             |
| Total Defense Contract Management Agency   |                              |  |     | 14,340               | 15,638  | 17,373  |             |



## UNCLASSIFIED

Chemical and Biological Defense Program  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line No  | Program Element | Item  | Act | FY 2003 | FY 2004 | FY 2005              | S E C |
|--|-----------------|---|-----|---------|---------|----------------------|-------|
|  |                 |   |     |         |         | Thousands of Dollars |       |
| 8  | 0601384BP       | Chemical and Biological Defense Program                           | 1   | 53,162  | 51,380  | 36,769               | U     |
| <b>Basic Research</b>                                  |                 |   |     |         |         | <b>36,769</b>        |       |
| 15   | 0602384BP       | Chemical and Biological Defense Program                           | 2   | 170,183 | 151,372 | 104,385              | U     |
| <b>Applied Research</b>                                |                 |   |     |         |         | <b>104,385</b>       |       |
| 33   | 0603384BP       | Chemical and Biological Defense Program - Advanced Development    | 3   | 105,700 | 156,496 | 117,343              | U     |
| <b>Advanced Technology Development (ATD)</b>           |                 |   |     |         |         | <b>117,343</b>       |       |
| 69   | 0603884BP       | Chemical and Biological Defense Program                           | 4   | 91,567  | 131,433 | 104,195              | U     |
| <b>Advanced Component Development &amp; Prototypes</b> |                 |   |     |         |         | <b>104,195</b>       |       |
| 82   | 0604384BP       | Chemical and Biological Defense Program                           | 5   | 168,723 | 176,337 | 152,379              | U     |
| <b>System Development and Demonstration (SDD)</b>      |                 |   |     |         |         | <b>152,379</b>       |       |
| 120  | 0605384BP       | Chemical and Biological Defense Program                           | 6   | 48,678  | 38,928  | 42,652               | U     |
| <b>RDT&amp;E Management Support</b>                    |                 |   |     |         |         | <b>42,652</b>        |       |
| 142  | 0607384BP       | Chemical and Biological Defense (Operational Systems Development) | 7   |         |         | 2,178                | U     |
| <b>Operational Systems Development</b>                 |                 |   |     |         |         | <b>2,178</b>         |       |
| <b>Total Chemical and Biological Defense Program</b>   |                 |   |     |         |         | <b>705,946</b>       |       |
|  |                 |   |     |         |         | <b>559,901</b>       |       |

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National Geospatial Intelligence Agency  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |           |
|------------|------------------------------|---|-----|----------------------|---------|-----------|
|            |                              |   |     | FY 2003              | FY 2004 | FY 2005 C |
| 168        | 0304345BQ                    | National Imagery and Mapping<br>Program       | 7   |                      |         |           |
| 169        | 0305102BQ                    | Defense Imagery and Mapping<br>Program        | 7   |                      |         |           |
| 184        | 0305208BQ                    | Distributed Common Ground/Surface<br>Systems  | 7   |                      |         |           |
|            |                              | Operational Systems Development               |     |                      |         |           |
|            |                              | Total National Geospatial Intelligence Agency |     |                      |         |           |

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Defense Threat Reduction Agency  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

Date: FEB 2004

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

| Program Element |   |     | Thousands of Dollars |                |                | S     |
|-----------------|---|-----|----------------------|----------------|----------------|-------|
| Line No         | Item  | Act | FY 2003              | FY 2004        | FY 2005        | E C U |
| 18              | 0602716BR WMD Defeat Technology   | 2   | 228,827              | 184,109        | 249,786        | U     |
| 19              | 0602717BR WMD Defense Technologies  | 2   | 115,681              | 115,497        | 116,113        | U     |
|                 | <b>Applied Research</b>   |     | <b>344,508</b>       | <b>299,606</b> | <b>365,899</b> |       |
| 28              | 0603160BR Counterproliferation Initiatives<br>- Proliferation Prevention and Defeat | 3   | 105,164              | 90,338         | 74,456         | U     |
| 36              | 0603711BR Arms Control Technology   | 3   | 42,023               | 6,438          |                | U     |
|                 | <b>Advanced Technology Development (ATD)</b>  |     | <b>147,187</b>       | <b>96,776</b>  | <b>74,456</b>  |       |
| 109             | 0605110BR Critical Technology Support   | 6   | 1,823                | 1,838          | 1,937          | U     |
| 121             | 0605502BR Small Business Innovation Research  | 6   | 4,914                |                |                | U     |
|                 | <b>RDT&amp;E Management Support</b>   |     | <b>6,737</b>         | <b>1,838</b>   | <b>1,937</b>   |       |
|                 | <b>Total Defense Threat Reduction Agency</b>  |     | <b>498,432</b>       | <b>398,220</b> | <b>442,292</b> |       |

## UNCLASSIFIED

Counter Intelligence Field Activity  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No                                | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|---|------------------------------|---|-----|----------------------|---------|---------|-------------|
|   |                              |   |     | FY 2003              | FY 2004 | FY 2005 |             |
| 171                                       | 0305127BZ                    | Foreign Counterintelligence<br>Activities           | 7   |                      |         |         |             |
| 173                                       | 0305146BZ                    | Defense Joint Counterintelligence<br>Program (JMIP) | 7   | 23,035               | 105,462 | 32,939  | U           |
| Operational Systems Development           |                              |   |     | -----                | -----   | -----   |             |
| Total Counter Intelligence Field Activity |                              |   |     | -----                | -----   | -----   |             |

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## UNCLASSIFIED

Missile Defense Agency  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No   | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|--|------------------------------|---|-----|----------------------|------------------|------------------|-------------|
|  |                              |   |     | FY 2003              | FY 2004          | FY 2005          |             |
| 29   | 0603175C                     | Ballistic Missile Defense Technology                | 3   | 151,217              | 225,268          | 204,320          | U           |
| <b>Advanced Technology Development (ATD)</b>           |                              |   |     | <b>151,217</b>       | <b>225,268</b>   | <b>204,320</b>   |             |
| 63   | 0603869C                     | Meads Concepts                                      | 4   | 101,754              |                  |                  | U           |
| 64   | 0603879C                     | Advanced Concepts, Evaluations And Systems          | 4   |                      | 149,993          | 256,159          | U           |
| 65   | 0603880C                     | Ballistic Missile Defense System Segment            | 4   | 1,026,566            |                  |                  | U           |
| 66   | 0603881C                     | Ballistic Missile Defense Terminal Defense Segment  | 4   | 134,093              | 874,527          | 937,748          | U           |
| 67   | 0603882C                     | Ballistic Missile Defense Midcourse Defense Segment | 4   | 3,056,035            | 3,724,066        | 4,384,775        | U           |
| 68   | 0603883C                     | Ballistic Missile Defense Boost Defense Segment     | 4   | 705,643              | 617,270          | 492,614          | U           |
| 70   | 0603884C                     | Ballistic Missile Defense Sensors                   | 4   | 327,013              | 425,421          | 591,957          | U           |
| 71   | 0603886C                     | Ballistic Missile Defense System Interceptor        | 4   |                      | 117,719          | 511,262          | U           |
| 72   | 0603888C                     | Ballistic Missile Defense Test & Targets            | 4   |                      | 633,782          | 713,658          | U           |
| 73   | 0603889C                     | Ballistic Missile Defense Products                  | 4   |                      | 305,309          | 418,608          | U           |
| 74   | 0603890C                     | Ballistic Missile Defense Systems Core              | 4   |                      | 445,356          | 479,764          | U           |
| <b>Advanced Component Development &amp; Prototypes</b> |                              |   |     | <b>5,351,104</b>     | <b>7,293,443</b> | <b>8,786,545</b> |             |
| 87   | 0604861C                     | Theater High-Altitude Area Defense System - TMD     | 5   | 864,216              |                  |                  | U           |
| 88   | 0604865C                     | Patriot PAC-3 Theater Missile Defense Acquisition   | 5   | 138,922              |                  |                  | U           |
| <b>System Development and Demonstration (SDD)</b>      |                              |   |     | <b>1,003,138</b>     |                  |                  |             |

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Missile Defense Agency  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                  |         | S<br>E<br>C      | U |
|------------|------------------------------|---|-----|----------------------|------------------|---------|------------------|---|
|            |                              |   |     | FY 2003              | FY 2004          | FY 2005 |                  |   |
| 122        | 0605502C                     | Small Business Innovative<br>Research - MDA | 6   | 138,791              |                  |         |                  |   |
|            |                              | <b>RDT&amp;E Management Support</b>         |     | <b>138,791</b>       |                  |         |                  |   |
| 136        | 0901585C                     | Pentagon Reservation                        | 6   | 7,432                | 14,327           |         | 13,884           | U |
| 137        | 0901598C                     | Management HQ - MDA                         | 6   | 35,331               | 92,449           |         | 141,923          | U |
|            |                              | <b>RDT&amp;E Management Support</b>         |     | <b>42,763</b>        | <b>106,776</b>   |         | <b>155,807</b>   |   |
|            |                              | <b>Total Missile Defense Agency</b>         |     | <b>6,687,013</b>     | <b>7,625,487</b> |         | <b>9,146,672</b> |   |

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Office of Secretary Of Defense  
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EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |               |               | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|---------------|---------------|-------------|
|            |                              |  |     | FY 2003              | FY 2004       | FY 2005       |             |
| 1          | 0601101D8Z                   | In-House Laboratory Independent Research                       | 1   | 2,044                |               |               | U           |
| 3          | 0601103D8Z                   | University Research Initiatives                                | 1   | 232,653              |               |               | U           |
| 4          | 0601105D8Z                   | Force Health Protection  | 1   | 14,156               |               |               | U           |
| 5          | 0601108D8Z                   | High Energy Laser Research Initiatives                         | 1   | 11,355               |               |               | U           |
| 6          | 0601111D8Z                   | Government/Industry Cosponsorship of University Research       | 1   | 8,240                | 6,696         |               | U           |
| 7          | 0601114D8Z                   | Defense Experimental Program to Stimulate Competitive Research | 1   | 15,197               | 9,578         | 9,590         | U           |
|            |                              | <b>Basic Research</b>  |     | <b>283,645</b>       | <b>16,274</b> | <b>9,590</b>  |             |
| 9          | 0602227D8Z                   | Medical Free Electron Laser                                    | 2   | 11,609               | 18,518        | 9,668         | U           |
| 10         | 0602228D8Z                   | Historically Black Colleges and Universities (HBCU) Science    | 2   | 25,306               | 20,651        | 14,192        | U           |
| 11         | 0602234D8Z                   | Lincoln Laboratory Research Program                            | 2   | 26,056               | 26,830        | 25,441        | U           |
| 20         | 0602787D8Z                   | Medical Technology   | 2   | 6,100                | 11,641        | 10,084        | U           |
| 21         | 0602890D8Z                   | High Energy Laser Research                                     | 2   | 42,791               |               |               | U           |
|            |                              | <b>Applied Research</b>  |     | <b>111,862</b>       | <b>77,640</b> | <b>59,385</b> |             |
| 24         | 0603002D8Z                   | Medical Advanced Technology                                    | 3   |                      | 5,941         | 2,063         | U           |
| 25         | 0603104D8Z                   | Explosives Demilitarization Technology                         | 3   | 17,494               |               |               | U           |
| 26         | 0603121D8Z                   | SO/LIC Advanced Development                                    | 3   | 18,495               | 33,605        | 32,682        | U           |
| 27         | 0603122D8Z                   | Combating Terrorism Technology Support                         | 3   | 114,374              | 97,291        | 46,719        | U           |
| 30         | 0603225D8Z                   | Joint DoD-DoE Munitions Technology Development                 | 3   | 18,124               | 24,648        | 23,319        | U           |
| 31         | 0603232D8Z                   | Automatic Target Recognition                                   | 3   | 4,403                |               |               | U           |

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EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|----------------|----------------|-------------|
|            |                              |   |     | FY 2003              | FY 2004        | FY 2005        |             |
| 34         | 0603400D8Z                   | Joint Unmanned Combat Air Systems<br>(J-UCAS) Advanced Technology<br>Development and R. | 3   |                      |                | 284,617        | U           |
| 35         | 0603704D8Z                   | Special Technical Support   | 3   | 12,878               | 13,495         |                | U           |
| 38         | 0603716D8Z                   | Strategic Environmental Research<br>Program   | 3   | 50,938               | 49,883         | 56,936         | U           |
| 39         | 0603727D8Z                   | Joint Warfighting Program   | 3   | 8,850                | 10,284         | 9,936          | U           |
| 41         | 0603750D8Z                   | Advanced Concept Technology<br>Demonstrations   | 3   | 195,136              | 218,167        | 213,901        | U           |
| 42         | 0603755D8Z                   | High Performance Computing<br>Modernization Program                                     | 3   | 185,221              | 202,492        | 186,666        | U           |
| 50         | 0603781D8Z                   | Software Engineering Institute  | 3   | 21,535               | 22,324         | 21,599         | U           |
| 52         | 0603826D8Z                   | Quick Reaction Special Projects   | 3   | 24,076               | 46,566         | 64,389         | U           |
| 53         | 0603832D8Z                   | Joint Wargaming Simulation<br>Management Office   | 3   | 45,835               | 41,735         | 46,017         | U           |
| 54         | 0603924D8Z                   | High Energy Laser Advanced<br>Technology Program  | 3   | 12,793               |                |                | U           |
| 55         | 0603942D8Z                   | Technology Link   | 3   |                      | 3,547          | 1,934          | U           |
| 56         | 0605160D8Z                   | Counterproliferation Support  | 3   | 1,683                | 1,851          | 1,958          | U           |
|            |                              | <b>Advanced Technology Development (ATD)</b>  |     | <b>731,835</b>       | <b>771,829</b> | <b>992,736</b> |             |
| 58         | 0603228D8Z                   | Physical Security Equipment   | 4   | 46,872               | 1,183          |                | U           |
| 59         | 0603709D8Z                   | Joint Robotics Program  | 4   | 19,235               | 15,784         | 11,771         | U           |
| 60         | 0603714D8Z                   | Advanced Sensor Applications<br>Program   | 4   | 16,914               | 32,983         | 17,581         | U           |
| 61         | 0603736D8Z                   | CALS Initiative   | 4   | 7,362                |                |                | U           |
| 62         | 0603851D8Z                   | Environmental Security Technical<br>Certification Program                               | 4   | 20,091               | 35,191         | 32,546         | U           |
| 75         | 0603910D8Z                   | Strategic Capability Modernization  | 4   | 19,461               |                |                | U           |



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Office of Secretary of Defense  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|----------------|----------------|-------------|
|            |                              |  |     | FY 2003              | FY 2004        | FY 2005        |             |
| 76         | 0603920D8Z                   | Humanitarian Demining  | 4   | 12,627               | 13,108         | 13,747         | U           |
| 77         | 0603923D8Z                   | Coalition Warfare  | 4   | 6,545                | 5,822          | 5,886          | U           |
| 78         | 0604400D8Z                   | Joint Unmanned Combat Air Systems<br>(J-UCAS) Advanced Component and<br>Prototype Deve | 4   |                      |                | 422,873        | U           |
| 79         | 0604722D8Z                   | Joint Service Education and<br>Training Systems Development                            | 4   | 961                  | 987            |                | U           |
| 80         | 0605017D8Z                   | Reduction Of Total Ownership Cost  | 4   |                      |                | 27,351         | U           |
|            |                              | <b>Advanced Component Development &amp; Prototypes</b>                                 |     | <b>150,068</b>       | <b>105,058</b> | <b>531,755</b> |             |
| 81         | 0303191D8Z                   | Joint Electromagnetic Technology<br>(JET) Program                                      | 4   | 10,063               | 14,944         | 6,679          | U           |
|            |                              | <b>Advanced Component Development &amp; Prototypes</b>                                 |     | <b>10,063</b>        | <b>14,944</b>  | <b>6,679</b>   |             |
| 83         | 0604618D8Z                   | MANPADS Defense Program  | 5   |                      | 2,958          | 14,135         | U           |
| 84         | 0604709D8Z                   | Joint Robotics Program   | 5   | 27,326               | 21,381         | 13,845         | U           |
| 86         | 0604771D8Z                   | Joint Tactical Information<br>Distribution System (JTIDS)                              | 5   | 10,122               | 10,478         | 18,515         | U           |
| 90         | 0605013D8Z                   | Prototype Accounting Systems   | 5   | 8,889                |                |                | U           |
| 93         | 0605016D8Z                   | Financial Management System<br>Improvements  | 5   | 67,191               | 45,098         | 94,767         | U           |
|            |                              | <b>System Development and Demonstration (SDD)</b>                                      |     | <b>113,528</b>       | <b>79,915</b>  | <b>141,262</b> |             |
| 100        | 0901200D8Z                   | BWMP Domain Management and<br>Systems Integration                                      | 5   |                      | 4,480          | 7,472          | U           |
|            |                              | <b>System Development and Demonstration (SDD)</b>                                      |     |                      | <b>4,480</b>   | <b>7,472</b>   |             |
| 101        | 0603704D8Z                   | Special Technical Support  | 6   |                      |                | 19,274         | U           |
| 102        | 0603757D8Z                   | Training Transformation (T2)   | 6   |                      | 2,909          |                | U           |
| 103        | 0603835D8Z                   | Transformation Initiatives Program   | 6   |                      |                | 9,977          | U           |
| 104        | 0603858D8Z                   | Unexploded Ordnance Detection and<br>Clearance   | 6   | 1,109                |                |                | U           |

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Office of Secretary of Defense  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|----------------|---------|-------------|
|            |                              |   |     | FY 2003              | FY 2004        | FY 2005 |             |
| 105        | 0604774D8Z                   | Defense Readiness Reporting System (DRRS)                   | 6   | 15,336               | 19,691         | U       |             |
| 106        | 0604875D8Z                   | Joint Systems Architecture Development                      | 6   |                      | 4,989          | U       |             |
| 107        | 0604943D8Z                   | Thermal Vicar   | 6   | 7,053                | 7,263          | U       |             |
| 108        | 0605104D8Z                   | Technical Studies, Support and Analysis                     | 6   | 29,465               | 30,618         | U       |             |
| 110        | 0605114D8Z                   | BLACK LIGHT   | 6   | 14,547               | 21,535         | U       |             |
| 111        | 0605116D8Z                   | General Support to C3I                                      | 6   | 21,853               | 25,529         | U       |             |
| 112        | 0605117D8Z                   | Foreign Material Acquisition and Exploitation               | 6   | 23,422               | 35,572         | U       |             |
| 113        | 0605123D8Z                   | Interagency Export License Automation                       | 6   | 862                  | 5,882          | U       |             |
| 114        | 0605124D8Z                   | Defense Travel System                                       | 6   | 30,353               | 28,508         | U       |             |
| 116        | 0605128D8Z                   | Classified Program USD(P)                                   | 6   | 186,192              | 145,835        | U       |             |
| 117        | 0605130D8Z                   | Foreign Comparative Testing                                 | 6   | 29,319               | 35,633         | U       |             |
| 118        | 0605170D8Z                   | Support to Networks and Information Integration             | 6   |                      | 11,490         | U       |             |
| 119        | 0605200D8Z                   | General Support to USD (Intelligence)                       | 6   |                      | 4,830          | U       |             |
| 123        | 0605502D8Z                   | Small Business Innovative Research                          | 6   | 37,539               |                | U       |             |
| 125        | 0605710D8Z                   | Classified Programs - C3I                                   | 6   | 75,066               | 41,541         | U       |             |
| 126        | 0605790D8Z                   | Small Business Innovation Research/Challenge Administration | 6   | 1,965                | 1,999          | U       |             |
| 128        | 0605799D8Z                   | Force Transformation Directorate                            | 6   | 9,416                | 19,591         | U       |             |
| 131        | 0605804D8Z                   | Development Test and Evaluation                             | 6   | 46,944               | 8,882          | U       |             |
|            |                              | <b>RDT&amp;E Management Support</b>                         |     | <b>515,001</b>       | <b>265,734</b> |         |             |

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Office of Secretary Of Defense  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line No | Program Element Number | Item   | Act | FY 2003          | FY 2004          | FY 2005 C        | S E C                |
|---------|------------------------|--|-----|------------------|------------------|------------------|----------------------|
|         |                        |  |     |                  |                  |                  | Thousands of Dollars |
| 133     | 0303169D8Z             | Information Technology Rapid Acquisition             | 6   |                  |                  | 19,958           | U                    |
| 134     | 0305193D8Z             | Intelligence Support to Information Operations (IO)  | 6   |                  |                  | 12,878           | U                    |
|         |                        | <b>RDT&amp;E Management Support</b>                  |     |                  |                  | <b>32,836</b>    |                      |
| 138     | 0901598D8W             | IT Software Dev Initiatives                          | 6   |                  | 1,767            | 1,700            | U                    |
|         |                        | <b>RDT&amp;E Management Support</b>                  |     |                  | <b>1,767</b>     | <b>1,700</b>     |                      |
| 140     | 0604805D8Z             | Commercial Operations and Support Savings Initiative | 7   | 14,499           |                  |                  | U                    |
|         |                        | <b>Operational Systems Development</b>               |     | <b>14,499</b>    |                  |                  |                      |
| 158     | 0303140D8Z             | Information Systems Security Program                 | 7   |                  | 14,576           | 11,135           | U                    |
| 170     | 0305125D8Z             | Critical Infrastructure Protection (CIP)             | 7   |                  | 2,023            | 28,021           | U                    |
| 174     | 0305146D8Z             | Defense Joint Counterintelligence Program (JNIP)     | 7   | 66,500           | 30,312           |                  | U                    |
| 176     | 0305190D8Z             | C3I Intelligence Programs                            | 7   | 106,672          | 130,178          |                  | U                    |
| 177     | 0305191D8Z             | Technology Development                               | 7   | 225,789          | 245,536          |                  | U                    |
| 180     | 0305199D8Z             | Net Centricity                                       | 7   |                  |                  | 214,222          | U                    |
| 191     | 0305917D8Z             | National Security Space Architect (NSSA)             | 7   | 10,632           |                  |                  | U                    |
|         |                        | <b>Operational Systems Development</b>               |     | <b>409,593</b>   | <b>422,625</b>   | <b>253,378</b>   |                      |
| 195     | 1001018D8Z             | NATO Joint STARS                                     | 7   |                  | 24,363           | 30,399           | U                    |
|         |                        | <b>Operational Systems Development</b>               |     |                  | <b>24,363</b>    | <b>30,399</b>    |                      |
|         |                        | <b>Total Office of Secretary Of Defense</b>          |     | <b>2,340,094</b> | <b>1,945,386</b> | <b>2,332,926</b> |                      |

## UNCLASSIFIED

Defense Adv Research Projects Agcy  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line No | Program Element                              | Item  | Act | Thousands of Dollars |                  |                  | S E C |
|---------|--|---|-----|----------------------|------------------|------------------|-------|
|         |  |   |     | FY 2003              | FY 2004          | FY 2005          |       |
| 2       | 0601101E                                     | Defense Research Sciences                       | 1   | 171,383              | 139,434          | 143,729          | U     |
|         | <b>Basic Research</b>                        |   |     | <b>171,383</b>       | <b>139,434</b>   | <b>143,729</b>   |       |
| 12      | 0602301E                                     | Computing Systems and Communications Technology | 2   | 390,607              | 334,696          | 342,614          | U     |
| 13      | 0602302E                                     | Embedded Software and Pervasive Computing       | 2   | 54,870               | 13,250           |                  | U     |
| 14      | 0602383E                                     | Biological Warfare Defense                      | 2   | 157,861              | 149,105          | 147,533          | U     |
| 16      | 0602702E                                     | Tactical Technology                             | 2   | 168,826              | 247,405          | 339,175          | U     |
| 17      | 0602712E                                     | Materials and Electronics Technology            | 2   | 414,437              | 465,450          | 502,044          | U     |
|         | <b>Applied Research</b>                      |   |     | <b>1,186,601</b>     | <b>1,209,906</b> | <b>1,331,366</b> |       |
| 32      | 0603285E                                     | Advanced Aerospace Systems                      | 3   | 242,095              | 315,941          | 361,067          | U     |
| 40      | 0603739E                                     | Advanced Electronics Technologies               | 3   | 158,847              | 186,748          | 218,151          | U     |
| 43      | 0603760E                                     | Command, Control and Communications Systems     | 3   | 115,654              | 193,562          | 225,784          | U     |
| 44      | 0603762E                                     | Sensor and Guidance Technology                  | 3   | 216,052              | 336,658          | 337,117          | U     |
| 45      | 0603763E                                     | Marine Technology                               | 3   | 26,164               | 13,751           |                  | U     |
| 46      | 0603764E                                     | Land Warfare Technology                         | 3   | 164,634              | 81,513           | 63,121           | U     |
| 47      | 0603765E                                     | Classified DARPA Programs                       | 3   | 261,851              | 218,192          | 238,131          | U     |
| 48      | 0603766E                                     | Network-Centric Warfare Technology              | 3   |                      | 91,226           | 125,124          | U     |
|         | <b>Advanced Technology Development (ATD)</b> |   |     | <b>1,185,297</b>     | <b>1,437,591</b> | <b>1,568,495</b> |       |
| 124     | 0605502E                                     | Small Business Innovative Research              | 6   | 64,848               |                  |                  | U     |
| 132     | 0605898E                                     | Management HQ - R&D                             | 6   | 44,850               | 44,525           | 46,689           | U     |
|         | <b>RDT&amp;E Management Support</b>          |   |     | <b>109,698</b>       | <b>44,525</b>    | <b>46,689</b>    |       |

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Defense Adv Research Projects Agcy  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |           | S<br>E<br>C<br>U |
|------------|------------------------------|--|-----|----------------------|-----------|------------------|
|            |                              |  |     | FY 2003              | FY 2004   | FY 2005          |
| 139        | 0909999E                     | Financing for Cancelled Account<br>Adjustments | 6   | 2,000                |           |                  |
|            |                              | RDT&E Management Support                       |     | 2,000                |           |                  |
|            |                              | Total Defense Adv Research Projects Agcy       |     | 2,654,979            | 2,831,456 | 3,090,279        |

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National Security Agency  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No                      | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|---------------------------------|------------------------------|--|-----|----------------------|---------|---------|-------------|
|                                 |                              |  |     | FY 2003              | FY 2004 | FY 2005 |             |
| 135                             | 0305193G                     | Intelligence Support to<br>Information Operations (IO) | 6   |                      |         |         |             |
| RDT&E Management Support        |                              |  |     |                      |         |         |             |
| 147                             | 0301011G                     | Cryptologic Activities                                 | 7   |                      |         |         |             |
| 159                             | 0303140G                     | Information Systems Security<br>Program                | 7   | 473,128              | 477,791 | 477,846 | U           |
| 178                             | 0305193G                     | Intelligence Support to<br>Information Operations (IO) | 7   |                      |         |         |             |
| 181                             | 0305202G                     | Dragon U-2 (JMIP)                                      | 7   |                      |         |         |             |
| 182                             | 0305206G                     | Airborne Reconnaissance Systems                        | 7   |                      |         |         |             |
| 183                             | 0305207G                     | Manned Reconnaissance Systems                          | 7   |                      |         |         |             |
| 185                             | 0305208G                     | Distributed Common Ground/Surface<br>Systems           | 7   |                      |         |         |             |
| 189                             | 0305885G                     | Tactical Cryptologic Activities                        | 7   |                      |         |         |             |
| 190                             | 0305889G                     | Counterdrug Intelligence Support                       | 7   |                      |         |         |             |
| Operational Systems Development |                              |  |     |                      |         |         |             |
| Total National Security Agency  |                              |  |     |                      |         |         |             |

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The Joint Staff  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line No | Program Element Number | Item   | Act | Thousands of Dollars |                |                | S E C |
|---------|------------------------|--|-----|----------------------|----------------|----------------|-------|
|         |                        |  |     | FY 2003              | FY 2004        | FY 2005        |       |
| 115     | 0605126J               | Joint Theater Air and Missile Defense Organization | 6   | 74,905               | 85,078         | 86,409         | U     |
|         |                        | <b>RDT&amp;E Management Support</b>                |     | <b>74,905</b>        | <b>85,078</b>  | <b>86,409</b>  |       |
| 143     | 0208043J               | Classified Programs                                | 7   |                      | 1,448          | 1,663          | U     |
| 145     | 0208052J               | Joint Analytical Model Improvement Program         | 7   | 8,509                | 7,129          | 5,577          | U     |
|         |                        | <b>Operational Systems Development</b>             |     | <b>8,509</b>         | <b>8,577</b>   | <b>7,240</b>   |       |
| 160     | 0303149J               | C4I for the Warrior                                | 7   | 9,466                | 4,139          | 4,177          | U     |
|         |                        | <b>Operational Systems Development</b>             |     | <b>9,466</b>         | <b>4,139</b>   | <b>4,177</b>   |       |
| 194     | 0902298J               | Management Headquarters (JCS)                      | 7   | 16,404               | 28,921         | 22,421         | U     |
|         |                        | <b>Operational Systems Development</b>             |     | <b>16,404</b>        | <b>28,921</b>  | <b>22,421</b>  |       |
|         |                        | <b>Total The Joint Staff</b>                       |     | <b>109,284</b>       | <b>126,715</b> | <b>120,247</b> |       |



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Defense Information Systems Agency  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line No   | Program Element Number | Item   | Act | FY 2003              | FY 2004       | FY 2005       | S E C |
|---|------------------------|--|-----|----------------------|---------------|---------------|-------|
|   |                        |  |     | Thousands of Dollars |               |               |       |
| 85  | 0604764K               | Advanced IT Services Joint Program Office (AITS-JPO)       | 5   | 25,480               | 16,673        | 18,183        | U     |
| <b>System Development and Demonstration (SDD)</b> |                        |  |     | <b>25,480</b>        | <b>16,673</b> | <b>18,183</b> |       |
| 94  | 0303129K               | Defense Message System                                     | 5   | 11,279               | 9,662         | 6,623         | U     |
| 95  | 0303140K               | Information Systems Security Program                       | 5   | 18,005               | 6,688         | 2,493         | U     |
| 96  | 0303141K               | Global Combat Support System                               | 5   | 16,709               | 16,396        | 17,867        | U     |
| 97  | 0303158K               | Joint Command and Control Program (JC2)                    | 5   |                      |               | 3,000         | U     |
| 98  | 0305840K               | Electronic Commerce  | 5   | 24,165               | 7,137         | 3,466         | U     |
| <b>System Development and Demonstration (SDD)</b> |                        |  |     | <b>70,158</b>        | <b>39,883</b> | <b>33,449</b> |       |
| 129   | 0605801K               | Defense Technical Information Services (DTIC)              | 6   | 42,963               | 43,494        | 45,203        | U     |
| <b>RDT&amp;E Management Support</b>               |                        |  |     | <b>42,963</b>        | <b>43,494</b> | <b>45,203</b> |       |
| 144   | 0208045K               | C4I Interoperability                                       | 7   | 44,696               | 43,122        | 41,074        | U     |
| <b>Operational Systems Development</b>            |                        |  |     | <b>44,696</b>        | <b>43,122</b> | <b>41,074</b> |       |
| 153   | 0302016K               | National Military Command System-Wide Support              | 7   | 1,016                | 1,116         | 1,240         | U     |
| 154   | 0302019K               | Defense Info Infrastructure Engineering and Integration    | 7   | 6,802                | 2,423         | 2,517         | U     |
| 155   | 0303126K               | Long-Haul Communications - DCS                             | 7   | 1,602                | 1,380         | 11,401        | U     |
| 156   | 0303127K               | Support of the National Communications System              | 7   | 4,275                |               |               | U     |
| 157   | 0303131K               | Minimum Essential Emergency Communications Network (MEECN) | 7   | 7,641                | 7,089         | 7,261         | U     |
| 161   | 0303149K               | C4I for the Warrior  | 7   | 19,103               | 36,489        | 24,712        | U     |
| 162   | 0303150K               | Global Command and Control System                          | 7   | 17,421               | 50,400        | 43,693        | U     |
| 163   | 0303153K               | Joint Spectrum Center                                      | 7   | 15,667               | 16,565        | 18,941        | U     |

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Defense Information Systems Agency  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item                                       | Act | Thousands of Dollars |         |         | S<br>E |
|------------|------------------------------|--|-----|----------------------|---------|---------|--------|
|            |                              |  |     | FY 2003              | FY 2004 | FY 2005 | C      |
| 164        | 0303165K                     | Defense Collaboration Tool Suite<br>(DCTS) | 7   |                      | 12,689  | 8,503   | U      |
| 165        | 0303170K                     | Net-Centric Enterprise Services<br>(NCES)  | 7   |                      | 30,364  | 52,059  | U      |
| 166        | 0303610K                     | Teleport Program                           | 7   | 6,911                | 10,304  | 10,272  | U      |
|            |                              | Operational Systems Development            |     | 80,438               | 168,819 | 180,599 |        |
|            |                              | Total Defense Information Systems Agency   |     | 263,735              | 311,991 | 318,508 |        |

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Defense Intelligence Agency  
FY 2005 ROTEE PROGRAM

EXHIBIT R-1

Date: FEB 2004

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

| Line No                           | Program Element Number | Item  | Act | FY 2003              | FY 2004 | FY 2005 | SE C |
|-----------------------------------|------------------------|---|-----|----------------------|---------|---------|------|
|                                   |                        |   |     | Thousands of Dollars |         |         |      |
| 148                               | 0301301L               | General Defense Intelligence Program                | 7   |                      |         |         |      |
| 150                               | 0301398L               | Management HQ - GDIP                                | 7   |                      |         |         |      |
| 175                               | 0305183L               | Defense Human Intelligence (HUMINT) Program (DHIP)  | 7   |                      |         |         |      |
| 179                               | 0305193L               | Intelligence Support to Information Operations (IO) | 7   |                      |         |         |      |
| 186                               | 0305208L               | Distributed Common Ground/Surface Systems           | 7   |                      |         |         |      |
| 187                               | 0305883L               | Hard and Deeply Buried Target (HDBT) Intel Support  | 7   |                      |         |         |      |
| 188                               | 0305884L               | Intelligence Planning and Review Activities         | 7   |                      |         |         |      |
| Operational Systems Development   |                        |   |     |                      |         |         |      |
| Total Defense Intelligence Agency |                        |   |     |                      |         |         |      |

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Defense Contract Audit Agency  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item                                | Act | FY 2003 | FY 2004 | Thousands of Dollars | S | E | C | U |
|------------|------------------------------|-------------------------------------|-----|---------|---------|----------------------|---|---|---|---|
| 146        | 0300205R                     | Information Technology Systems      | 7   | 537     |         |                      |   |   |   |   |
|            |                              | Operational Systems Development     |     | 537     |         |                      |   |   |   |   |
|            |                              | Total Defense Contract Audit Agency |     | 537     |         |                      |   |   |   |   |

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Defense Logistics Agency  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                |               | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|----------------|---------------|-------------|
|            |                              |   |     | FY 2003              | FY 2004        | FY 2005       |             |
| 37         | 0603712S                     | Generic Logistics R&D Technology Demonstrations   | 3   | 130,577              | 123,111        | 27,542        | U           |
| 51         | 0603805S                     | Dual Use Application Programs                     | 3   | 5,750                | 3,710          |               | U           |
|            |                              | <b>Advanced Technology Development (ATD)</b>      |     | <b>136,327</b>       | <b>126,821</b> | <b>27,542</b> |             |
| 99         | 0305840S                     | Electronic Commerce                               | 5   |                      | 2,335          | 2,345         | U           |
|            |                              | <b>System Development and Demonstration (SDD)</b> |     |                      | <b>2,335</b>   | <b>2,345</b>  |             |
| 127        | 0605798S                     | Defense Technology Analysis                       | 6   | 6,625                | 5,035          | 7,279         | U           |
|            |                              | <b>RDT&amp;E Management Support</b>               |     | <b>6,625</b>         | <b>5,035</b>   | <b>7,279</b>  |             |
| 192        | 0708011S                     | Industrial Preparedness                           | 7   | 20,741               | 45,871         | 11,005        | U           |
| 193        | 0708012S                     | Logistics Support Activities                      | 7   | 28,182               | 35,401         | 11,389        | U           |
|            |                              | <b>Operational Systems Development</b>            |     | <b>48,923</b>        | <b>81,272</b>  | <b>22,394</b> |             |
|            |                              | <b>Total Defense Logistics Agency</b>             |     | <b>191,875</b>       | <b>215,463</b> | <b>59,560</b> |             |

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DoD Human Resources Activity  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2004

| Line No | Program Element Number | Item   | Act | Thousands of Dollars |         |         | SE C |
|---------|------------------------|--|-----|----------------------|---------|---------|------|
|         |                        |  |     | FY 2003              | FY 2004 | FY 2005 |      |
| 49      | 0603769SE              | Distributed Learning Advanced Technology Development     | 3   | 15,230               | 13,611  | 13,756  | U    |
|         |                        | <b>Advanced Technology Development (ATD)</b>             |     | 15,230               | 13,611  | 13,756  |      |
| 91      | 0605014SE              | Information Technology Development                       | 5   |                      |         | 52,407  | U    |
|         |                        | <b>System Development and Demonstration (SDD)</b>        |     |                      |         | 52,407  |      |
| 130     | 0605803SE              | R&D in Support of DoD Enlistment, Testing and Evaluation | 6   | 12,666               | 15,286  | 10,598  | U    |
|         |                        | <b>RDT&amp;E Management Support</b>                      |     | 12,666               | 15,286  | 10,598  |      |
|         |                        | <b>Total DoD Human Resources Activity</b>                |     | 27,896               | 28,897  | 76,761  |      |

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Defense Security Cooperation Agency  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|---------|-------------|
|            |                              |  |     | FY 2003              | FY 2004 | FY 2005 U   |
| 141        | 0605127T                     | Partnership for Peace (PfP)<br>Information Management System | 7   | 2,739                | 5,840   | 6,995       |
|            |                              | Operational Systems Development                              |     | 2,739                | 5,840   | 6,995       |
|            |                              | Total Defense Security Cooperation Agency                    |     | 2,739                | 5,840   | 6,995       |

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Defense Security Service  
FY 2005 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2004

| Line<br>No | Program<br>Element<br>Number | Item                                      | Act | Thousands of Dollars |         |         | S<br>E<br>C<br>U |
|------------|------------------------------|---|-----|----------------------|---------|---------|------------------|
|            |                              |   |     | FY 2003              | FY 2004 | FY 2005 |                  |
| 172        | 0305127V                     | Foreign Counterintelligence<br>Activities | 7   | 463                  |         |         |                  |
|            |                              | Operational Systems Development           |     | 463                  |         |         |                  |
|            |                              | Total Defense Security Service            |     | 463                  |         |         |                  |

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